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ABSTRACT

This report presents detailed statistical trends of doctorate awards in science and engineering (S&E). The data were collected by the Survey of Earned Doctorates (SED) and identify field and recipient characteristics, institutions awarding doctorates, and post graduation plans of recipients. Contents include: (1) General Notes; (2) Detailed Statistical Tables; (3) Technical Notes; and (4) Survey Questionnaire. Tables include: (1) S&E doctorates awarded by field of study and year of doctorate: 1992-2001; (2) S&E doctorates awarded to women by field of study and year of doctorate: 1992-2001; (3) S&E doctorates awarded by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1992-2001; (4) S&E doctorates awarded by major field and citizenship status of recipients: 1992-2001; (5) percentage distribution of science and engineering doctorates awarded by major field and citizenship status of recipients: 1992-2001; (6) non-U.S. citizens awarded doctorates in science and engineering by country of citizenship, visa type, and year of doctorate: 1992-2001; (7) doctorates awarded by state, institution, and major field: 2001; (8) postgraduation plans of S&E doctorate recipients by citizenship status and major field: 2001; (9) percentage distribution of definite postgraduation plans of S&E doctorate recipients by citizenship status and major field: 2001; (10) postgraduation plans of S&E doctorate recipients (U.S. citizens and non-U.S. citizens with permanent visas) by sex and major field: 2001; and (11) percentage distribution of definite postgraduation plans of S&E doctorate recipients (U.S. citizens and non-U.S. citizens with permanent visas) by sex and major field: 2001. (YDS)

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Science and Engineering Doctorate Awards: 2001

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Detailed Statistical Tables

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Division of Science Resources Statistics
Directorate for Social, Behavioral, and Economic Sciences
National Science Foundation

October 2002

Science and Engineering Doctorate Awards: 2001

Detailed Statistical Tables

Susan T. Hill, Project Officer

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General Notes

The data presented in this report show trends in doctorate awards by science and engineering (S&E) field and recipient characteristics, institutions awarding doctorates, and postgraduation plans of recipients. The source of the data is the Survey of Earned Doctorates (SED). The data were developed as part of the Doctorate Data Project. The Doctorate Data Project consists of the Survey of Earned Doctorates (a census of research doctorate recipients) and the Survey of Doctorate Recipients (a biennial survey of the employment of doctoral scientist and engineers).

The SED has been conducted annually for the National Science Foundation (NSF) and four other Federal agencies. Information from this survey becomes part of the Doctorate Records File, which is a census of recipients of research doctorates awarded since 1920 by regionally accredited universities and colleges in the United States. Doctoral degrees such as the Ph.D. or D. Sc. are included in these surveys, but first professional degrees such as the J.D. or M.D. are not.

Data for the SED are collected directly from the individual doctorate recipients. The questionnaire is distributed through the cooperation of the graduate deans to persons as they are completing their doctorate. The data for a given year include all doctorates awarded in the 12-month period ending on June 30 of that year.

These tables present detailed data on S&E doctorate recipients, with some totals provided for broad non-S&E fields in most tables. Detailed data on all fields of study are published annually in the interagency report *Doctorate Recipients from United States Universities: Summary Report 2001*. Data are also provided by the other Federal agencies that sponsor the Survey of Earned Doctorates; the groupings of field specialties into broad fields may differ among the sponsoring agencies according to their missions.

Over 92 percent of the doctorate recipients in 2001 responded to the questionnaire. Over the period 1992-2001, the response rate varied between 92 and 95 percent. Note that most of the numbers presented are actual self-reports, as there are no adjustments for nonresponse. For the nonrespondents, partial data from public sources are added to the file; therefore, more complete counts are presented for conferred doctorates by field of study and sex of recipient. Because some tables present data subject to nonresponse, these summaries represent the conservative known responses for any data item. Therefore, small changes in numbers should be interpreted with caution, as numerical trends are affected by fluctuations in response rates and declines and increases may appear greater than they may be in reality.

For further information on the survey methodology or the availability of data on S&E doctorate recipients, please go to http://www.nsf.gov/sbe/srs/ssed/sedmeth.htm or contact–

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Table 1. Doctorates awarded, by field of study and year of doctorate: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Science and engineering, total[1]	24,675	25,443	26,205	26,536	27,243	27,242	27,283	25,940	25,951	25,509
Engineering, total	5,438	5,698	5,822	6,008	6,309	6,118	5,927	5,332	5,320	5,502
Aeronautical/astronautical engineering	234	228	230	252	287	273	242	207	215	203
Chemical engineering, total	725	737	725	708	798	767	776	674	725	726
Chemical	607	624	630	602	681	662	669	576	619	631
Petroleum	54	52	42	48	52	51	48	45	44	37
Polymer/plastics[2]	64	61	53	58	65	54	59	53	62	58
Civil engineering, total	594	624	684	656	698	656	650	584	555	593
Civil	540	563	602	572	600	593	587	506	479	499
Environmental health	54	61	82	84	98	63	63	78	76	94
Electrical engineering, total	1,483	1,543	1,673	1,731	1,741	1,721	1,596	1,478	1,542	1,577
Communications	30	22	33	29	32	33	40	39	42	47
Computer	175	167	202	189	208	227	210	204	172	183
Electrical/electronics	1,278	1,354	1,438	1,513	1,501	1,461	1,346	1,235	1,328	1,347
Industrial/manufacturing engineering[3]	196	236	228	284	259	246	229	212	176	205
Materials/metallurgical engineering, total	485	535	539	588	574	582	565	469	451	499
Ceramic sciences[4]	42	42	39	39	41	39	24	33	22	17
Materials science	365	416	433	476	472	483	482	393	404	450
Metallurgical	78	77	67	73	61	60	59	43	25	32
Mechanical engineering, total	987	1,030	1,015	1,025	1,052	1,023	1,023	855	863	953
Mechanical	855	902	883	917	947	930	937	787	806	878
Engineering mechanics	132	128	132	108	105	93	86	68	57	75
Other engineering, total	734	765	728	764	900	850	848	853	793	746
Agricultural	84	86	89	73	104	79	74	59	60	52
Bioengineering/biomedical	147	171	173	189	220	211	208	245	251	232
Engineering physics	25	21	17	17	37	24	15	28	26	22
Engineering science	51	55	46	56	52	45	50	49	34	53
Mining/mineral	26	24	23	19	31	33	21	18	10	10
Nuclear	120	108	85	105	113	103	98	76	98	75
Ocean	21	24	29	21	26	34	29	16	18	28
Operations research	56	56	47	48	74	74	62	67	51	55
Systems	37	57	51	47	47	49	68	42	34	46
Engineering, general	64	47	39	60	60	51	29	40	42	26
Engineering, other	103	116	129	129	136	147	194	213	169	147
Sciences, total[1]	19,237	19,745	20,383	20,528	20,934	21,124	21,356	20,608	20,631	20,007
Physical sciences, total	3,781	3,699	3,977	3,841	3,838	3,769	3,825	3,579	3,408	3,389
Astronomy, total	134	145	144	173	192	198	207	159	185	186
Astronomy	55	76	66	89	84	71	91	59	78	89
Astrophysics	79	69	78	84	108	127	116	100	107	97
Chemistry, total	2,214	2,137	2,257	2,162	2,148	2,148	2,216	2,132	1,969	1,979
Analytical	304	286	334	317	346	350	383	333	326	333
Inorganic	268	237	262	258	249	279	287	279	221	280
Medicinal/ pharmaceutical[5]	69	99	102	96	96	105	114	131	107	115
Nuclear	7	8	10	5	5	8	6	10	9	4
Organic	512	518	544	483	506	567	598	563	524	521
Physical	398	336	334	338	300	334	279	310	270	286
Polymer	83	107	117	116	121	110	122	95	107	106
Theoretical	59	53	52	40	57	48	41	56	52	40
Chemistry, general	449	431	447	458	396	261	285	196	263	203
Chemistry, other	65	62	55	51	72	86	101	159	110	91

See explanatory information, if any, and SOURCE at end of table.

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Table 1. Doctorates awarded, by field of study and year of doctorate: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Physics, total	1,403	1,399	1,548	1,479	1,485	1,401	1,378	1,271	1,205	1,193
Acoustics	18	27	20	18	19	19	18	16	10	10
Chemical & atomic/molecular[6]	85	95	140	110	129	106	100	100	110	81
Elementary particle	153	170	176	183	176	170	173	169	147	121
Fluids	17	19	12	18	21	24	26	23	10	8
Nuclear	86	82	90	91	87	106	92	77	74	79
Optics	94	96	104	98	129	123	104	98	117	107
Plasma & high-temperature[7]	65	62	79	46	48	39	55	49	38	39
Polymer	17	29	29	23	33	19	24	28	21	18
Solid state & low-temperature[8]	408	336	388	371	364	328	314	307	279	294
Physics, general	297	340	343	355	323	255	191	202	225	207
Physics, other	163	143	167	166	156	212	281	202	174	229
Other physical sciences	30	18	28	27	13	22	24	17	29	31
Earth, atmospheric, and ocean sciences, total	794	771	824	780	794	878	814	805	757	749
Atmospheric sciences, total	120	99	129	130	125	149	125	124	143	116
Atmospheric dynamics	23	23	27	16	21	25	24	16	17	17
Atmospheric physics/chemistry	36	13	27	27	22	45	38	43	39	33
Meteorology	28	34	32	25	35	28	25	22	34	20
Atmospheric science/meteorology, general	27	22	37	44	33	36	22	33	36	34
Atmospheric science/meteorology, other	6	7	6	18	14	15	16	10	17	12
Geosciences, total	503	479	509	454	452	489	504	452	386	394
Geology	166	197	194	186	162	165	171	157	124	115
Geochemistry	62	50	59	42	49	49	58	55	48	42
Geomorphology/glacial geology	12	16	13	11	11	26	20	18	14	10
Geophysics/seismology	108	101	106	93	101	108	106	100	70	88
Hydrology/water resources	29	25	30	24	31	43	35	32	43	45
Mineralogy/petrology	29	9	21	19	23	19	14	14	5	15
Paleontology	25	21	17	20	14	23	23	15	31	16
Stratigraphy/sedimentation	23	28	27	18	12	23	24	17	13	13
Geological & related sciences, general	18	15	18	21	27	16	13	9	20	16
Geological & related sciences, other	31	17	24	22	22	17	40	35	18	34
Oceanography, total	114	125	125	115	134	144	112	130	134	119
Marine sciences	32	27	34	32	27	30	18	30	35	34
Oceanography	82	98	91	83	107	114	94	100	99	85
Other environmental sciences	57	68	61	81	83	96	73	99	94	120

See explanatory information, if any, and SOURCE at end of table.

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Table 1. Doctorates awarded, by field of study and year of doctorate: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Mathematical/computer sciences, total	1,927	2,026	2,021	2,187	2,042	2,032	2,104	1,938	1,908	1,832
Mathematics, total	1,058	1,146	1,118	1,190	1,122	1,123	1,177	1,083	1,049	1,006
Algebra	69	84	78	82	78	78	75	84	82	67
Analysis/functional analysis	105	105	107	99	100	103	130	86	81	91
Applied mathematics	213	188	206	211	230	242	265	252	238	214
Computing theory	12	18	16	14	18	14	18	14	17	11
Geometry	45	44	35	45	72	70	54	65	59	40
Logic	28	19	29	35	16	23	16	23	19	24
Mathematical statistics[9]	217	228	205	205	178	181	204	174	195	198
Number theory	25	42	37	35	42	46	46	50	40	35
Operations research	22	37	26	38	21	20	17	21	19	14
Topology	58	54	38	51	55	62	65	65	50	53
Mathematics, general	209	276	269	305	233	153	163	116	150	156
Mathematics, other	55	51	72	72	79	131	124	133	99	103
Computer sciences, total	869	880	903	997	920	909	927	855	859	826
Computer science	791	825	833	913	836	828	821	741	721	687
Information science/ systems	78	55	70	84	84	81	106	114	138	83
Computer and information science, other	na	na	na	na	na	na	na	na	na	56
Biological/agricultural sciences, total	5,862	6,060	6,281	6,411	6,760	6,771	6,883	6,549	6,791	6,526
Biological sciences, total	4,799	5,092	5,203	5,375	5,724	5,789	5,846	5,583	5,849	5,678
Bacteriology	13	14	18	13	16	13	13	13	15	17
Biochemistry	715	846	804	824	794	832	800	760	776	726
Biomedical sciences[10]	na	na	na	93	141	158	183	176	155	154
Biophysics	125	103	123	155	142	147	166	173	164	162
Biotechnology research[11]	na	8	14	4	6	11	12	19	14	9
Plant genetics	33	41	30	35	41	30	40	31	35	31
Plant pathology	32	41	40	32	38	33	18	36	25	31
Plant physiology	68	48	70	55	73	47	61	54	39	45
Botany, other	107	105	117	102	105	91	113	67	92	75
Anatomy	75	76	66	64	47	50	35	33	39	29
Biometrics/biostatistics	63	74	72	67	81	84	75	76	92	90
Cell biology	188	231	237	236	233	251	300	281	337	312
Developmental biology/ embryology	48	57	62	64	96	115	127	108	111	106
Ecology	180	177	201	203	245	255	293	273	296	336
Endocrinology	27	16	26	20	24	17	30	19	20	17
Entomology	139	114	123	121	136	123	138	114	137	89
Biological immunology[12]	181	169	161	190	238	214	245	223	239	266
Microbiology	377	433	423	426	444	410	383	383	382	397
Molecular biology	527	582	598	617	651	775	736	716	705	707
Neuroscience	238	276	284	308	404	437	413	431	495	482
Nutritional sciences	132	134	147	136	142	124	139	102	150	135
Parasitology	17	17	22	14	22	17	15	13	19	22
Toxicology	105	100	120	126	138	180	155	114	123	133
Human/animal genetics	142	172	203	202	212	217	197	216	227	197
Human/animal pathology	114	130	128	109	135	106	90	120	105	116
Human/animal pharmacology	279	274	259	278	316	300	255	254	267	258
Human/animal physiology	266	271	289	262	275	227	258	244	241	214
Zoology, other	134	114	117	145	100	97	111	126	133	103
Biological sciences, general	315	305	288	348	291	209	217	182	199	197
Biological sciences, other	159	164	161	126	138	219	228	226	217	222

See explanatory information, if any, and SOURCE at end of table.

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Table 1. Doctorates awarded, by field of study and year of doctorate: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Agricultural sciences, total	1,063	968	1,078	1,036	1,036	982	1,037	966	942	848
Agronomy & crop science[13]	123	104	143	114	110	77	97	106	70	75
Animal breeding/genetics	23	18	17	19	12	24	18	21	22	16
Animal nutrition	41	52	58	50	54	55	45	47	45	45
Dairy science	14	11	11	14	9	14	10	12	9	2
Poultry science	22	16	21	11	12	9	11	8	9	11
Animal sciences, other	97	74	86	85	90	62	60	70	73	71
Fisheries science & management[14]	26	38	48	49	46	45	30	38	43	44
Wildlife/range management[15]	55	54	52	50	64	50	56	44	56	40
Food engineering	14	9	16	7	7	11	13	7	10	13
Food sciences, other	151	141	153	135	142	175	153	137	142	128
Forest biology[15]	29	18	20	24	19	22	20	14	22	27
Forest engineering[16]	2	3	na	4	0	13	2	1	3	0
Forest management[16]	16	17	17	20	22	21	27	17	13	13
Wood science & pulp/paper technology[16]	21	20	26	26	18	25	25	21	11	20
Conservation/renewable natural resources[16]	9	13	21	24	13	17	25	25	19	32
Forestry & related sciences, other[16]	62	55	59	71	55	50	69	50	54	48
Horticulture science	65	62	85	67	73	44	60	66	55	37
Plant breeding/genetics	82	68	81	72	63	67	69	44	68	37
Plant pathology	63	58	55	52	90	65	66	66	63	51
Plant sciences, other	29	28	24	30	21	20	37	38	29	23
Soil chemistry/ microbiology	24	26	21	27	29	32	27	29	26	23
Soil sciences, other	63	59	69	72	78	56	74	67	64	55
Agricultural sciences, general	9	10	4	6	5	10	8	8	10	2
Agricultural sciences, other	23	14	11	7	4	18	35	30	26	35

See explanatory information, if any, and SOURCE at end of table.

Table 1. Doctorates awarded, by field of study and year of doctorate: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Psychology, total	3,263	3,420	3,379	3,430	3,497	3,562	3,676	3,673	3,618	3,433
Clinical	1,309	1,373	1,285	1,291	1,329	1,259	1,344	1,444	1,354	1,256
Cognitive psychology & psycholinguistics[17]	101	104	129	104	128	166	113	143	140	142
Comparative	2	5	8	4	3	6	6	11	7	5
Counseling	507	488	497	471	465	488	448	460	475	480
Developmental & child[18]	170	202	179	152	188	215	267	193	203	193
Educational	91	91	69	74	92	61	61	64	97	47
Experimental	154	143	139	151	128	146	149	139	133	134
Family & marriage counseling[19]	na	na	na	57	51	64	51	56	54	45
Human/individual & family development[19]	na	na	129	150	151	126	119	135	148	135
Industrial/organizational	138	159	137	155	162	187	189	159	188	172
Physiological/ psychobiology[20]	55	85	93	92	80	77	92	87	89	93
Quantitative	10	16	17	13	19	17	15	14	8	10
Personality	17	22	19	16	24	26	25	16	23	11
Psychometrics	5	9	5	10	11	11	9	15	13	2
School	88	95	84	91	82	84	106	121	99	109
Social	139	125	153	155	170	181	186	176	207	198
Psychology, general	295	306	280	306	281	318	300	236	239	228
Psychology, other	182	197	156	138	133	130	196	204	141	173
Social sciences, total[1]	3,610	3,769	3,901	3,879	4,003	4,112	4,054	4,064	4,149	4,078
Economics, total	1,051	1,067	1,101	1,152	1,177	1,163	1,156	1,075	1,085	1,084
Agricultural economics	141	137	162	173	169	133	155	149	137	154
Econometrics	25	24	26	27	29	31	25	15	15	13
Economics	885	906	913	952	979	999	976	911	933	917
Political science, total	804	824	930	895	928	975	959	1,016	986	982
International relations & affairs[21]	76	102	112	73	99	88	96	119	77	89
Political science/ government	513	507	589	600	622	665	662	655	669	659
Public administration	108	117	135	128	103	95	104	117	103	96
Public policy analysis[22]	107	98	94	94	104	127	97	125	137	138
Sociology, total	512	535	548	555	528	601	579	572	633	577
Demography/population studies[23]	17	22	23	15	11	24	30	28	19	12
Sociology	495	513	525	540	517	577	549	544	614	565
Other social sciences, total	1,243	1,343	1,322	1,277	1,370	1,373	1,360	1,401	1,445	1,435
American studies	81	101	88	94	115	84	100	98	113	127
Anthropology	320	342	384	375	397	434	425	463	446	408
Archaeology	33	38	34	35	21	35	34	26	36	40
Area studies	33	36	34	27	28	10	14	11	14	17
Criminology	37	39	41	44	60	49	55	51	66	62
Geography	111	137	146	150	165	149	154	144	197	186
History/philosophy of science & technology[24]	28	37	27	41	37	36	43	50	42	40
Linguistics	266	214	221	201	230	244	220	251	229	229
Statistics	29	48	46	48	48	56	61	72	60	49
Urban affairs & studies[25]	86	123	132	103	108	93	77	57	78	80
Social sciences, general	33	32	21	35	26	26	30	25	38	24
Social sciences, other	186	196	148	124	135	157	147	153	126	173

See explanatory information, if any, and SOURCE at end of table.

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Table 1. Doctorates awarded, by field of study and year of doctorate: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Non-S&E, total[1], [26]	14,215	14,357	14,832	15,211	15,195	15,317	15,371	15,157	15,389	15,235
Health	1,112	1,197	1,296	1,330	1,324	1,421	1,500	1,407	1,592	1,613
Humanities[1]	4,036	4,091	4,374	4,691	4,712	5,037	5,116	5,033	5,213	5,153
Education	6,677	6,689	6,711	6,649	6,784	6,580	6,575	6,545	6,419	6,324
Professional/other/unknown	2,390	2,380	2,451	2,541	2,375	2,279	2,180	2,172	2,165	2,145
Grand total, all fields	38,890	39,800	41,037	41,747	42,438	42,559	42,654	41,097	41,340	40,744

1 Categories are grouped differently from the questionnaire and the Summary Reports in that linguistics, history of science, American studies, and archaeology are included not in humanities but in social science.

2 In 1993 this subfield was changed from "Polymer engineering" to "Polymer and plastics engineering."

3 In 1993 this subfield was changed from "Industrial engineering" to "Industrial and manufacturing engineering."

4 In 1993 this subfield was changed from "Ceramic engineering" to "Ceramic sciences engineering."

5 In 1993 this subfield was changed from "Pharmaceutical chemistry" to "Medicinal and pharmaceutical chemistry."

6 In 1993 this subfield was changed from "Atomic/molecular physics" to "Chemical and atomic/molecular physics."

7 In 1993 this subfield was changed from "Plasma physics" to "Plasma and high-temperature physics."

8 In 1993 this subfield was changed from "Solid state physics" to "Solid state and low-temperature physics."

9 In 1993 this subfield was changed from "Math probability and statistics" to "Mathematical statistics."

10 These subfields were introduced in 1995: "Biomedical sciences" and "Family and marriage counseling."

11 "Biotechnology research" was introduced in 1993.

12 In 1993 this subfield was changed from "Immunology" to "Biological immunology."

13 In 1993 this subfield was changed from "Agronomy" to "Agronomy and crop science."

14 In 1993 this subfield was changed from "Fisheries science" to "Fisheries science and management."

15 In 1988 this subfield was changed from "Wildlife management" to "Wildlife/range management."

16 In 1988 "Forestry science" was separated into "Forest biology," "Forest engineering," "Forest management," "Wood science," "Renewable natural resources," and "Forestry and related sciences, other." In 1993 "Pulp and paper technology" was added to "Wood science," and "Conservation" was added to "Renewable natural resources." "Forest engineering" was deleted from the survey in 1994 and reintroduced in 1995.

17 In 1993 this subfield was changed from "Cognitive psychology" to "Cognitive psychology and psycholinguistics."

18 In 1993 this subfield was changed from "Developmental psychology" to "Developmental and child psychology."

19 "Human/individual & family development" was introduced in 1994.

20 In 1993 this subfield was changed from "Physiological psychology" to "Physiological psychology/psychobiology."

21 In 1993 this subfield was changed from "International relations" to "International relations and affairs."

22 In 1993 this subfield was changed from "Public policy studies" to "Public policy analysis."

23 In 1993 this subfield was changed from "Demography" to "Demography and population studies."

24 In 1993 this subfield was changed from "History of science" to "History and philosophy of science and technology."

25 In 1993 this subfield was changed from "Urban studies" to "Urban affairs and studies."

26 Non-S&E doctorates include those whose field of specialization is unknown.

KEY: na = Not available (i.e., the subfield was not identified separately in the questionnaire for that year)

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates

Table 2. Doctorates awarded to women, by field of study and year of doctorate: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	Percent women	
											1992	2001
Science and engineering, total[1]	7,080	7,652	7,921	8,287	8,651	8,936	9,347	9,086	9,384	9,303	28.7	36.5
Engineering, total	506	522	635	696	777	750	774	789	837	925	9.3	16.8
Aeronautical/astronautical engineering	8	8	11	14	24	16	15	17	21	28	3.4	13.8
Chemical engineering, total	113	94	113	109	143	122	140	123	151	180	15.6	24.8
Chemical	101	83	101	96	126	106	119	101	130	155	16.6	24.6
Petroleum	3	5	3	1	3	3	6	5	6	7	5.6	18.9
Polymer/plastics[2]	9	6	9	12	14	13	15	17	15	18	14.1	31.0
Civil engineering, total	50	54	80	76	79	60	100	89	88	111	8.4	18.7
Civil	36	45	56	55	64	70	83	76	78	82	6.7	16.4
Environmental health	14	9	24	21	15	10	17	13	10	29	25.9	30.9
Electrical engineering, total	115	125	147	173	169	150	156	155	195	203	7.8	12.9
Communications	1	2	5	5	2	3	6	6	7	12	3.3	25.5
Computer	13	15	25	18	23	21	22	32	31	33	7.4	18.0
Electrical/electronics	101	108	117	150	144	126	128	117	157	158	7.9	11.7
Industrial/manufacturing engineering[3]	25	27	33	50	51	40	40	43	35	44	12.8	21.5
Materials/metallurgical engineering, total	61	78	83	95	84	106	84	88	83	105	12.6	21.0
Ceramic sciences[4]	9	6	9	5	3	8	2	9	8	3	21.4	17.6
Materials science	50	67	69	84	72	96	75	75	73	99	13.7	22.0
Metallurgical	2	5	5	6	9	2	7	4	2	3	2.6	9.4
Mechanical engineering, total	45	57	69	64	78	88	93	96	96	91	4.6	9.5
Mechanical	33	46	60	56	68	82	80	85	89	86	3.9	9.8
Engineering mechanics	12	11	9	8	10	6	13	11	7	5	9.1	6.7
Other engineering, total	89	79	99	115	149	148	146	178	168	163	12.1	21.8
Agricultural	6	6	10	7	17	12	5	12	7	8	7.1	15.4
Bioengineering/biomedical	33	31	45	48	49	54	51	63	71	67	22.4	28.9
Engineering physics	2	3	3	1	3	4	3	4	1	2	8.0	9.1
Engineering science	6	3	3	6	4	7	8	4	6	9	11.8	17.0
Mining/mineral	3	1	3	0	3	3	4	2	0	2	11.5	20.0
Nuclear	9	5	8	9	9	8	10	8	9	8	7.5	8.0
Ocean	0	1	2	3	3	5	0	1	3	3	.0	10.7
Operations research	11	10	7	8	16	15	15	16	11	17	19.6	30.9
Systems	3	4	5	5	9	10	9	7	6	7	8.1	15.2
Engineering, general	3	3	4	9	11	3	3	4	10	4	4.7	15.4
Engineering, other	13	12	9	19	25	27	38	57	44	38	12.6	25.9
Sciences, total[1]	6,574	7,130	7,286	7,591	7,874	8,186	8,573	8,297	8,547	8,378	34.2	41.9
Physical sciences, total	770	780	828	878	842	852	926	831	835	834	20.4	24.6
Astronomy, total	19	25	25	30	41	37	45	33	40	41	14.2	22.0
Astronomy	11	12	9	18	21	18	22	18	24	21	20.0	23.6
Astrophysics	8	13	16	12	20	19	23	15	16	20	10.1	20.6
Chemistry, total	579	582	625	661	605	613	695	632	624	628	26.2	31.7
Analytical	95	91	102	109	111	106	146	108	121	122	31.3	36.6
Inorganic	69	59	87	92	68	81	84	90	64	91	25.7	32.5
Medicinal/ pharmaceutical[5]	27	38	28	32	32	43	46	50	51	45	39.1	39.1
Nuclear	1	0	0	3	0	0	1	1	3	0	14.3	.0
Organic	119	131	128	134	118	145	160	163	140	132	23.2	25.3
Physical	109	88	93	93	85	91	77	75	76	92	27.4	32.2
Polymer	12	22	23	28	30	25	40	31	31	33	14.5	31.1
Theoretical	16	16	17	10	14	11	10	9	12	6	27.1	15.0
Chemistry, general	107	112	126	135	119	76	88	52	81	73	23.8	36.0
Chemistry, other	24	25	23	25	28	35	43	53	45	34	36.9	37.4

See explanatory information, if any, and SOURCE at end of table.

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Table 2. Doctorates awarded to women, by field of study and year of doctorate: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	Percent women	
											1992	2001
Physics, total	167	169	175	182	193	193	177	160	163	155	11.9	13.0
Acoustics	0	1	2	3	2	4	6	1	1	1	.0	10.0
Chemical & atomic/molecular[6]	6	14	17	15	10	11	13	14	21	7	7.1	8.6
Elementary particle	12	18	16	7	19	21	11	17	15	9	7.8	7.4
Fluids	1	2	1	0	4	0	0	2	0	1	5.9	12.5
Nuclear	12	8	9	12	9	11	11	9	9	13	14.0	16.5
Optics	9	14	14	13	20	16	18	12	16	14	9.6	13.1
Plasma & high-temperature[7]	4	4	8	5	2	2	2	2	0	3	6.2	7.7
Polymer	1	5	4	3	12	7	4	7	6	5	5.9	27.8
Solid state & low-temperature[8]	53	42	53	57	54	51	37	42	42	32	13.0	10.9
Physics, general	42	46	30	41	39	36	29	22	31	23	14.1	11.1
Physics, other	27	15	21	26	22	34	46	32	22	47	16.6	20.5
Other physical sciences	5	4	3	5	3	9	9	6	8	10	16.7	32.3
Earth, atmospheric, and ocean sciences, total	188	160	183	170	172	209	219	210	230	236	23.7	31.5
Atmospheric sciences, total	27	18	26	23	22	25	30	22	33	28	22.5	24.1
Atmospheric dynamics	4	5	9	3	4	5	8	4	3	4	17.4	23.5
Atmospheric physics/chemistry	5	2	5	8	7	10	7	11	12	9	13.9	27.3
Meteorology	10	3	8	3	2	3	5	1	6	2	35.7	10.0
Atmospheric science/meteorology, general	7	7	4	7	5	5	8	3	7	10	25.9	29.4
Atmospheric science/meteorology, other	1	1	0	2	4	2	2	3	5	3	16.7	25.0
Geosciences, total	115	89	95	91	88	119	127	112	109	115	22.9	29.2
Geology	35	35	32	38	36	39	40	41	29	38	21.1	33.0
Geochemistry	16	13	10	10	10	15	22	21	13	11	25.8	26.2
Geomorphology/glacial geology	5	3	2	4	1	4	8	9	4	3	41.7	30.0
Geophysics/seismology	23	14	24	19	14	19	21	15	16	22	21.3	25.0
Hydrology/water resources	7	9	3	4	5	8	8	5	16	14	24.1	31.1
Mineralogy/petrology	6	1	6	4	11	6	5	3	1	4	20.7	26.7
Paleontology	2	5	2	3	4	11	7	4	14	4	8.0	25.0
Stratigraphy/sedimentation	10	5	4	1	3	7	4	3	4	3	43.5	23.1
Geological & related sciences, general	4	2	1	4	2	4	5	1	5	6	22.2	37.5
Geological & related sciences, other	7	2	11	4	2	6	7	10	7	10	22.6	29.4
Oceanography, total	29	35	38	28	39	38	32	45	46	45	25.4	37.8
Marine sciences	11	8	11	8	5	8	3	9	17	14	34.4	41.2
Oceanography	18	27	27	20	34	30	29	36	29	31	22.0	36.5
Other environmental sciences	17	18	24	28	23	27	30	31	42	48	29.8	40.0

See explanatory information, if any, and SOURCE at end of table.

Table 2. Doctorates awarded to women, by field of study and year of doctorate: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	Percent women	
											1992	2001
Mathematical/computer sciences, total	325	402	373	451	370	413	456	433	399	431	16.9	23.5
Mathematics, total	205	264	236	265	231	263	297	277	258	276	19.4	27.4
Algebra	13	28	24	24	18	20	18	25	21	19	18.8	28.4
Analysis/functional analysis	18	23	16	18	15	13	25	19	15	20	17.1	22.0
Applied mathematics	44	43	39	47	52	55	61	59	59	56	20.7	26.2
Computing theory	0	3	2	2	2	1	3	3	2	2	.0	18.2
Geometry	6	7	4	8	14	13	15	16	8	7	13.3	17.5
Logic	2	4	6	7	1	5	5	5	2	6	7.1	25.0
Mathematical statistics[9]	46	57	50	54	47	46	62	46	71	63	21.2	31.8
Number theory	4	4	5	9	7	11	7	12	5	8	16.0	22.9
Operations research	6	9	9	5	4	5	6	9	3	2	27.3	14.3
Topology	16	9	11	8	5	14	13	15	10	15	27.6	28.3
Mathematics, general	37	56	54	64	45	44	39	22	33	37	17.7	23.7
Mathematics, other	13	21	16	19	21	36	43	46	29	41	23.6	39.8
Computer sciences, total	120	138	137	186	139	150	159	156	141	155	13.8	18.8
Computer science	91	123	118	160	116	132	120	120	103	111	11.5	16.2
Information science/ systems	29	15	19	26	23	18	39	36	38	28	37.2	33.7
Computer and information science, other	na	na	na	na	na	na	na	na	na	16	na	28.6
Biological/agricultural sciences, total	2,064	2,278	2,358	2,445	2,697	2,755	2,834	2,674	2,892	2,833	35.2	43.4
Biological sciences, total	1,831	2,050	2,109	2,217	2,415	2,495	2,536	2,394	2,618	2,545	38.2	44.8
Bacteriology	5	6	11	6	8	1	4	6	6	10	38.5	58.8
Biochemistry	284	318	320	341	317	364	351	308	325	309	39.7	42.6
Biomedical sciences[10]	na	na	na	42	54	63	80	72	68	81	na	52.6
Biophysics	33	21	33	46	41	41	47	49	49	47	26.4	29.0
Biotechnology research[11]	na	4	2	2	1	3	4	2	6	3	na	33.3
Plant genetics	8	12	5	12	16	11	18	9	17	15	24.2	48.4
Plant pathology	10	15	11	10	13	8	8	12	8	11	31.3	35.5
Plant physiology	16	19	21	21	29	18	28	23	15	20	23.5	44.4
Botany, other	45	43	46	34	44	31	55	25	53	33	42.1	44.0
Anatomy	31	34	29	25	20	19	8	16	17	12	41.3	41.4
Biometrics/biostatistics	24	21	34	23	34	43	39	36	41	46	38.1	51.1
Cell biology	80	116	102	117	107	113	155	134	155	147	42.6	47.1
Developmental biology/ embryology	22	25	32	29	49	61	61	54	60	53	45.8	50.0
Ecology	65	67	70	64	84	108	114	121	116	126	36.1	37.5
Endocrinology	12	12	8	6	13	9	14	9	8	7	44.4	41.2
Entomology	35	28	28	27	36	42	38	37	37	30	25.2	33.7
Biological immunology[12]	83	73	74	82	129	93	115	100	116	122	45.9	45.9
Microbiology	157	183	177	188	185	185	169	164	189	183	41.6	46.1
Molecular biology	194	237	268	265	291	331	322	299	318	324	36.8	45.8
Neuroscience	92	110	129	121	165	190	169	181	195	199	38.7	41.3
Nutritional sciences	95	99	102	92	98	92	96	68	126	99	72.0	73.3
Parasitology	8	7	9	7	12	10	6	6	8	10	47.1	45.5
Toxicology	33	43	50	50	60	80	60	53	58	62	31.4	46.6
Human/animal genetics	61	76	87	92	101	103	91	105	114	106	43.0	53.8
Human/animal pathology	41	45	45	38	52	42	35	54	44	56	36.0	48.3
Human/animal pharmacology	92	121	106	129	142	143	120	113	123	115	33.0	44.6
Human/animal physiology	82	100	106	103	107	82	100	109	99	90	30.8	42.1
Zoology, other	45	32	32	50	31	34	43	47	55	40	33.6	38.8
Biological sciences, general	115	113	117	148	120	86	82	75	82	87	36.5	44.2
Biological sciences, other	63	70	55	47	56	89	104	107	110	102	39.6	45.9

See explanatory information, if any, and SOURCE at end of table.

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Table 2. Doctorates awarded to women, by field of study and year of doctorate: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	Percent women	
											1992	2001
Agricultural sciences, total	233	228	249	228	282	260	298	280	274	288	21.9	34.0
Agronomy & crop science[13]	23	19	17	13	17	10	18	16	14	21	18.7	28.0
Animal breeding/genetics	6	4	3	1	3	4	6	7	4	4	26.1	25.0
Animal nutrition	8	7	10	9	11	13	13	12	8	6	19.5	13.3
Dairy science	2	2	1	3	2	5	2	5	0	0	14.3	.0
Poultry science	6	6	5	0	3	2	3	2	3	5	27.3	45.5
Animal sciences, other	21	19	25	19	26	14	16	23	26	19	21.6	26.8
Fisheries science & management[14]	1	4	11	9	10	5	8	7	11	9	3.8	20.5
Wildlife/range management[15]	7	17	13	8	22	13	15	8	11	14	12.7	35.0
Food engineering	2	2	2	0	0	3	3	2	2	7	14.3	53.8
Food sciences, other	60	57	69	54	69	79	66	67	66	62	39.7	48.4
Forest biology[16]	8	7	6	5	4	1	6	4	8	7	27.6	25.9
Forest engineering[16]	0	0	na	0	0	2	0	0	0	0	.0	0
Forest management[16]	1	0	2	6	2	4	9	3	2	4	6.3	30.8
Wood science & pulp/paper technology[16]	2	3	6	6	3	2	4	6	1	4	9.5	20.0
Conservation/renewable natural resources[16]	1	4	6	5	3	7	11	9	5	16	11.1	56.3
Forestry & related sciences, other[16]	9	9	6	13	18	15	16	16	17	16	14.5	33.3
Horticulture science	16	15	14	22	22	16	13	16	16	13	24.6	35.1
Plant breeding/genetics	12	14	13	15	13	9	14	13	23	10	14.6	27.0
Plant pathology	20	15	20	9	27	26	24	27	12	16	31.7	31.4
Plant sciences, other	6	9	9	3	3	7	14	12	10	9	20.7	39.1
Soil chemistry/ microbiology	3	5	4	5	9	9	7	8	8	15	12.5	65.2
Soil sciences, other	12	4	6	18	14	8	21	11	15	15	19.0	27.3
Agricultural sciences, general	2	2	0	3	0	2	1	0	2	0	22.2	.0
Agricultural sciences, other	5	4	1	2	1	4	8	6	10	14	21.7	40.0

See explanatory information, if any, and SOURCE at end of table.

Table 2. Doctorates awarded to women, by field of study and year of doctorate: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	Percent women	
											1992	2001
Psychology, total	1,928	2,088	2,101	2,181	2,331	2,365	2,455	2,453	2,410	2,296	59.1	66.9
Clinical	810	873	842	870	921	896	966	1,036	993	886	61.9	70.5
Cognitive psychology & psycholinguistics[17]	47	48	56	52	60	75	50	70	65	77	46.5	54.2
Comparative	2	3	7	1	2	3	4	7	2	1	100.0	20.0
Counseling	289	284	310	298	303	314	295	295	312	332	57.0	69.2
Developmental & child[18]	131	155	132	121	154	170	207	149	163	159	77.1	82.4
Educational	69	67	39	53	66	45	39	44	63	30	75.8	63.8
Experimental	73	68	71	83	68	70	65	65	59	72	47.4	53.7
Family & marriage counseling[19]	na	na	na	37	28	43	28	38	29	22	na	48.9
Human/individual & family development[19]	na	na	103	118	121	101	91	112	103	95	na	70.4
Industrial/organizational	64	73	69	89	99	103	110	100	113	104	46.4	60.5
Physiological/ psychobiology[20]	25	50	52	35	41	42	49	49	56	46	45.5	49.5
Quantitative	5	11	8	9	7	10	8	7	2	5	50.0	50.0
Personality	8	12	12	9	11	13	15	11	14	6	47.1	54.5
Psychometrics	2	2	1	4	3	7	5	2	5	2	40.0	100.0
School	59	65	53	62	71	66	81	89	78	90	67.0	82.6
Social	78	67	100	84	111	116	117	115	135	107	56.1	54.0
Psychology, general	168	185	158	185	181	199	201	132	134	156	56.9	68.4
Psychology, other	98	125	88	71	84	92	124	132	84	106	53.8	61.3
Social sciences, total[1]	1,299	1,422	1,443	1,466	1,462	1,592	1,683	1,696	1,781	1,748	36.0	42.9
Economics, total	219	246	249	279	263	266	312	291	293	306	20.8	28.2
Agricultural economics	28	31	20	42	37	34	40	39	38	46	19.9	29.9
Econometrics	2	7	4	4	8	4	4	5	3	2	8.0	15.4
Economics	189	208	225	233	218	228	268	247	252	258	21.4	28.1
Political science, total	235	246	282	266	305	298	364	356	365	328	29.2	33.4
International relations & affairs[21]	24	28	24	21	32	19	32	38	26	30	31.6	33.7
Political science/ government	142	129	173	167	186	197	243	216	235	214	27.7	32.5
Public administration	30	41	47	43	37	30	48	46	42	41	27.8	42.7
Public policy analysis[22]	39	48	38	35	50	52	41	56	62	43	36.4	31.2
Sociology, total	250	255	283	294	276	334	317	342	374	337	48.8	58.4
Demography/population studies[23]	5	12	12	6	2	16	13	17	9	8	29.4	66.7
Sociology	245	243	271	288	274	318	304	325	365	329	49.5	58.2
Other social sciences, total	595	675	629	627	618	694	690	707	749	777	47.9	54.1
American studies	47	57	48	53	67	47	52	56	63	87	58.0	68.5
Anthropology	155	213	208	219	214	241	239	263	252	243	48.4	59.6
Archaeology	17	18	17	18	11	20	23	12	24	19	51.5	47.5
Area studies	11	11	17	12	9	5	11	3	4	8	33.3	47.1
Criminology	15	15	12	23	25	25	22	20	34	29	40.5	46.8
Geography	29	40	35	43	45	54	49	49	70	66	26.1	35.5
History/philosophy of science & technology[24]	8	16	10	17	10	13	19	18	17	8	28.6	20.0
Linguistics	133	118	134	102	113	135	123	148	134	136	50.0	59.4
Statistics	11	14	16	11	7	23	21	21	22	22	37.9	44.9
Urban affairs & studies[25]	31	44	43	37	39	29	26	17	28	33	36.0	41.2
Social sciences, general	20	13	9	23	15	14	17	14	20	19	60.6	79.2
Social sciences, other	118	116	80	69	63	88	88	86	81	107	63.4	61.8

See explanatory information, if any, and SOURCE at end of table.

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Table 2. Doctorates awarded to women, by field of study and year of doctorate: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	Percent women	
											1992	2001
Non-S&E, total[1], [25]	7,356	7,469	7,900	8,129	8,306	8,313	8,502	8,398	8,730	8,598	51.7	56.4
Health	710	777	843	843	860	936	1,006	899	1,067	1,027	63.8	63.7
Humanities[1]	1,858	1,918	2,054	2,256	2,343	2,383	2,469	2,417	2,593	2,573	46.0	49.9
Education	3,976	3,921	4,090	4,092	4,186	4,124	4,132	4,195	4,167	4,085	59.5	64.6
Professional/other/unknown	812	853	913	938	917	870	895	887	903	913	34.0	42.6
Grand total, all fields	14,436	15,121	15,821	16,416	16,957	17,249	17,849	17,484	18,114	17,901	37.1	43.9

1 Categories are grouped differently from the questionnaire and the Summary Reports in that linguistics, history of science, American studies, and archaeology are included not in humanities but in social science.

2 In 1993 this subfield was changed from "Polymer engineering" to "Polymer and plastics engineering."

3 In 1993 this subfield was changed from "Industrial engineering" to "Industrial and manufacturing engineering."

4 In 1993 this subfield was changed from "Ceramic engineering" to "Ceramic sciences engineering."

5 In 1993 this subfield was changed from "Pharmaceutical chemistry" to "Medicinal and pharmaceutical chemistry."

6 In 1993 this subfield was changed from "Atomic/molecular physics" to "Chemical and atomic/molecular physics."

7 In 1993 this subfield was changed from "Plasma physics" to "Plasma and high-temperature physics."

8 In 1993 this subfield was changed from "Solid state physics" to "Solid state and low-temperature physics."

9 In 1993 this subfield was changed from "Math probability and statistics" to "Mathematical statistics."

10 These subfields were introduced in 1995: "Biomedical sciences" and "Family and marriage counseling."

11 "Biotechnology research" was introduced in 1993.

12 In 1993 this subfield was changed from "Immunology" to "Biological immunology."

13 In 1993 this subfield was changed from "Agronomy" to "Agronomy and crop science."

14 In 1993 this subfield was changed from "Fisheries science" to "Fisheries science and management."

15 In 1988 this subfield was changed from "Wildlife management" to "Wildlife/range management."

16 In 1988 "Forestry science" was separated into "Forest biology," "Forest engineering," "Forest management," "Wood science," "Renewable natural resources," and "Forestry and related sciences, other." In 1993 "Pulp and paper technology" was added to "Wood science," and "Conservation" was added to "Renewable natural resources." "Forest engineering" was deleted from the survey in 1994 and reintroduced in 1995.

17 In 1993 this subfield was changed from "Cognitive psychology" to "Cognitive psychology and psycholinguistics."

18 In 1993 this subfield was changed from "Developmental psychology" to "Developmental and child psychology."

19 "Human/individual & family development" was introduced in 1994.

20 In 1993 this subfield was changed from "Physiological psychology" to "Physiological psychology/psychobiology."

21 In 1993 this subfield was changed from "International relations" to "International relations and affairs."

22 In 1993 this subfield was changed from "Public policy studies" to "Public policy analysis."

23 In 1993 this subfield was changed from "Demography" to "Demography and population studies."

24 In 1993 this subfield was changed from "History of science" to "History and philosophy of science and technology."

25 In 1993 this subfield was changed from "Urban studies" to "Urban affairs and studies."

26 Non-S&E doctorates include those whose field of specialization is unknown.

KEY: na = Not available (i.e., the subfield was not identified separately in the questionnaire for that year)

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates

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Table 3. Doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	U.S. citizens or permanent residents									
Science and engineering, total[1]	15,942	16,573	18,187	18,997	18,650	18,398	18,257	17,565	17,106	16,262
Engineering, total	2,520	2,697	3,053	3,342	3,389	3,332	3,046	2,888	2,569	2,435
Chemical	378	377	380	381	391	409	374	371	382	355
Civil	215	227	292	309	305	327	297	312	260	269
Electrical	719	795	899	971	929	940	804	765	647	561
Mechanical	426	434	538	563	588	538	516	463	397	427
Other engineering	782	864	944	1,118	1,176	1,118	1,055	977	883	823
Sciences, total[1]	13,422	13,876	15,134	15,655	15,261	15,066	15,211	14,677	14,537	13,827
Physical sciences, total	2,357	2,330	2,789	2,841	2,570	2,497	2,455	2,277	2,092	2,043
Astronomy	106	111	112	141	149	158	147	117	139	123
Chemistry	1,441	1,400	1,616	1,624	1,462	1,439	1,467	1,406	1,241	1,229
Physics	790	806	1,044	1,059	949	883	823	742	692	676
Other physical sciences	20	13	17	17	10	17	18	12	20	15
Earth, atmospheric, & ocean sciences	541	504	613	594	558	607	562	525	508	464
Mathematics	507	590	657	771	648	629	669	605	573	522
Computer sciences	489	509	543	616	514	520	561	492	457	420
Biological sciences	3,568	3,752	4,088	4,329	4,365	4,256	4,308	4,124	4,265	4,216
Agricultural sciences	573	506	616	598	576	550	543	494	502	429
Psychology	2,986	3,161	3,136	3,185	3,235	3,130	3,274	3,293	3,230	3,013
Social sciences[1]	2,401	2,524	2,692	2,721	2,795	2,877	2,839	2,867	2,910	2,720
Non-S&E, total[1]	12,048	12,134	12,710	13,064	12,892	12,695	12,904	12,725	12,806	12,467
Health	855	939	1,050	1,044	1,016	1,028	1,154	1,049	1,195	1,139
Humanities[1]	3,440	3,511	3,766	4,056	4,047	4,236	4,327	4,291	4,388	4,361
Education	6,017	5,968	6,066	5,995	6,074	5,752	5,747	5,812	5,672	5,431
Professional/other	1,736	1,716	1,828	1,969	1,755	1,679	1,676	1,573	1,551	1,536
Grand total, all fields	27,990	28,707	30,897	32,061	31,542	31,093	31,161	30,290	29,912	28,729
	U.S. citizens or permanent residents, American Indian/Alaskan Native									
Science and engineering, total[1]	69	43	64	67	96	79	97	114	88	74
Engineering, total	11	2	6	9	14	17	13	12	8	7
Chemical	1	1	1	2	1	4	3	2	1	1
Civil	1	0	0	0	2	2	0	2	1	0
Electrical	4	0	1	1	2	5	3	1	0	1
Mechanical	1	0	0	2	3	6	2	2	3	1
Other engineering	4	1	4	4	6	0	5	5	3	4
Sciences, total[1]	58	41	58	58	82	62	84	102	80	67
Physical sciences, total	12	5	6	7	6	10	10	9	9	12
Astronomy	0	1	0	0	0	1	1	1	1	1
Chemistry	6	2	4	5	4	6	7	5	7	11
Physics	6	2	2	2	2	2	2	3	1	0
Other physical sciences	0	0	0	0	0	1	0	0	0	0
Earth, atmospheric, & ocean sciences	1	4	1	0	2	2	3	6	5	0
Mathematics	2	1	2	2	1	1	3	1	2	2
Computer sciences	2	1	1	0	4	1	4	1	1	1
Biological sciences	13	7	16	15	20	7	12	20	17	15
Agricultural sciences	0	1	1	2	6	5	9	1	4	0
Psychology	15	15	12	14	18	18	31	35	22	17
Social sciences[1]	13	7	19	18	25	18	12	29	20	20
Non-S&E, total[1]	80	77	79	80	91	88	93	100	81	77
Health	5	6	6	9	4	6	4	6	4	6
Humanities[1]	18	10	20	18	18	19	21	21	20	21
Education	50	51	37	41	60	51	50	58	51	42
Professional/other	7	10	16	12	9	12	18	15	6	8
Grand total, all fields	149	120	143	147	187	167	190	214	169	151

See explanatory information, if any, and SOURCE at end of table.

Table 3. Doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	U.S. citizens or permanent residents, Asian/Pacific Islander									
Science and engineering, total[1]	1,337	1,599	2,981	3,659	3,079	2,530	2,135	1,936	1,705	1,636
Engineering, total	450	526	865	1,032	896	707	554	512	439	422
Chemical	54	62	96	101	80	73	65	58	69	52
Civil	34	41	69	91	89	72	38	46	43	37
Electrical	175	198	303	322	276	256	205	172	141	133
Mechanical	78	93	179	188	166	113	89	88	72	76
Other engineering	109	132	218	330	285	193	157	148	114	124
Sciences, total[1]	887	1,073	2,116	2,627	2,183	1,823	1,581	1,424	1,266	1,214
Physical sciences, total	226	260	598	749	501	400	331	253	203	202
Astronomy	4	3	10	22	12	8	13	3	13	6
Chemistry	134	155	331	415	295	234	206	183	121	125
Physics	88	101	254	311	193	157	111	67	68	71
Other physical sciences	0	1	3	1	1	1	1	0	1	0
Earth, atmospheric, & ocean sciences	27	22	89	104	77	71	51	39	27	35
Mathematics	51	79	142	207	140	97	71	57	70	48
Computer sciences	86	77	116	137	111	107	90	87	76	61
Biological sciences	268	366	719	920	885	721	657	609	538	552
Agricultural sciences	37	29	72	78	80	63	47	46	30	16
Psychology	56	73	108	121	121	126	113	132	146	120
Social sciences[1]	136	167	272	311	268	238	221	201	176	180
Non-S&E, total[1]	417	403	552	638	595	580	572	563	566	565
Health	52	45	93	93	87	87	83	87	99	106
Humanities[1]	99	106	149	192	187	179	192	193	176	184
Education	143	142	172	179	180	180	177	166	172	152
Professional/other	123	110	138	174	141	134	120	117	119	123
Grand total, all fields	1,754	2,002	3,533	4,297	3,674	3,110	2,707	2,499	2,271	2,201
	U.S. citizens or permanent residents, black									
Science and engineering, total[1]	404	468	499	550	573	615	646	714	711	696
Engineering, total	49	50	54	70	74	98	83	98	81	92
Chemical	13	6	8	3	12	16	3	11	8	17
Civil	3	5	8	11	8	10	10	6	6	11
Electrical	17	15	17	24	22	31	23	30	21	22
Mechanical	5	3	7	13	10	12	14	12	18	17
Other engineering	11	21	14	19	22	29	33	39	28	25
Sciences, total[1]	355	418	445	480	499	517	563	616	630	604
Physical sciences, total	25	41	46	42	60	52	56	66	62	54
Astronomy	1	2	0	1	0	2	1	2	1	1
Chemistry	17	31	34	33	45	35	45	56	44	42
Physics	6	7	11	8	15	15	10	8	16	11
Other physical sciences	1	1	1	0	0	0	0	0	1	0
Earth, atmospheric, & ocean sciences	6	4	6	3	4	8	8	14	7	5
Mathematics	4	8	11	5	8	7	16	12	14	19
Computer sciences	5	6	10	11	12	4	14	18	18	15
Biological sciences	62	75	78	107	98	112	111	116	118	136
Agricultural sciences	13	16	22	17	24	24	19	24	18	12
Psychology	103	118	124	149	152	151	158	172	190	174
Social sciences[1]	137	150	148	146	141	159	181	194	203	189
Non-S&E, total[1]	705	810	779	911	874	859	960	1,046	1,038	1,025
Health	38	59	46	60	48	55	65	57	75	64
Humanities[1]	89	98	106	115	116	141	139	164	157	167
Education	501	556	521	623	607	553	655	687	694	667
Professional/other	77	97	106	113	103	110	101	138	112	127
Grand total, all fields	1,109	1,278	1,278	1,461	1,447	1,474	1,606	1,760	1,749	1,721

See explanatory information, if any, and SOURCE at end of table.

Table 3. Doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	U.S. citizens or permanent residents, Hispanic, total									
Science and engineering, total[1]	513	542	548	573	626	659	754	721	728	689
Engineering, total	71	66	66	77	99	97	110	82	82	91
Chemical	16	10	7	13	19	7	13	7	18	7
Civil	7	12	14	11	6	12	16	12	9	9
Electrical	17	17	21	15	27	26	31	29	22	22
Mechanical	11	5	8	8	13	15	19	9	12	21
Other engineering	20	22	16	30	34	37	31	25	21	32
Sciences, total[1]	442	476	482	496	527	562	644	639	646	598
Physical sciences, total	72	79	90	73	67	69	54	63	78	65
Astronomy	4	2	2	4	2	3	2	1	3	7
Chemistry	42	51	59	43	36	44	34	46	51	43
Physics	26	26	29	26	29	22	18	16	23	15
Other physical sciences	0	0	0	0	0	0	0	0	1	0
Earth, atmospheric, & ocean sciences	16	13	8	13	19	16	16	21	18	15
Mathematics	12	16	13	15	11	20	27	15	15	15
Computer sciences	8	7	7	6	16	16	15	14	14	8
Biological sciences	102	114	131	127	131	146	168	175	173	164
Agricultural sciences	18	20	25	21	13	26	35	15	26	19
Psychology	133	131	133	148	173	171	208	215	211	174
Social sciences[1]	81	96	75	95	97	98	121	121	111	118
Non-S&E, total[1]	396	430	482	491	487	540	573	602	579	583
Health	13	24	25	30	38	32	37	46	34	29
Humanities[1]	129	144	168	154	178	208	198	197	208	229
Education	214	222	241	258	218	257	290	303	284	272
Professional/other	40	40	48	49	53	43	48	56	53	53
Grand total, all fields	909	972	1,030	1,064	1,113	1,199	1,327	1,323	1,307	1,262
	U.S. citizens or permanent residents, Puerto Rican									
Science and engineering, total[1]	120	112	131	137	142	171	173	184	185	155
Engineering, total	13	10	10	13	22	23	17	23	20	13
Chemical	3	2	2	4	4	1	3	2	5	2
Civil	1	1	1	1	1	5	1	2	2	2
Electrical	3	5	3	3	4	4	3	11	6	2
Mechanical	1	1	1	1	3	6	5	2	2	1
Other engineering	5	1	3	4	10	7	5	6	5	6
Sciences, total[1]	107	102	121	124	120	148	156	161	165	142
Physical sciences, total	20	17	26	21	12	20	11	22	20	14
Astronomy	1	0	0	1	0	0	1	0	0	0
Chemistry	14	14	18	17	9	13	9	18	19	11
Physics	5	3	7	3	3	7	1	4	1	3
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	3	1	0	2	3	6	5	5	5	3
Mathematics	2	1	1	1	3	4	7	2	2	2
Computer sciences	1	1	4	0	5	6	2	6	5	1
Biological sciences	27	27	28	30	32	36	43	47	33	48
Agricultural sciences	3	10	5	3	4	4	3	1	6	4
Psychology	35	24	43	44	48	56	71	57	74	45
Social sciences[1]	16	21	14	23	13	16	14	21	20	25
Non-S&E, total[1]	109	120	126	132	110	142	135	151	144	148
Health	4	3	6	12	7	10	7	11	9	4
Humanities[1]	22	36	38	30	38	49	37	31	44	41
Education	76	70	68	69	52	72	77	90	75	87
Professional/other	7	11	14	21	13	11	14	19	16	14
Grand total, all fields	229	232	257	269	252	313	308	335	329	301

See explanatory information, if any, and SOURCE at end of table.

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Table 3. Doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	U.S. citizens or permanent residents, Mexican American									
Science and engineering, total[1]	120	122	145	151	149	182	223	164	213	187
Engineering, total	10	12	15	19	28	19	30	13	26	18
Chemical	1	1	1	3	4	3	1	0	4	0
Civil	2	0	2	7	2	2	5	3	4	1
Electrical	3	2	4	3	9	5	7	4	4	8
Mechanical	2	0	2	2	4	3	3	1	6	4
Other engineering	2	9	6	4	9	6	14	5	8	5
Sciences, total[1]	110	110	130	132	121	143	193	151	187	169
Physical sciences, total	9	12	24	13	23	15	21	18	23	18
Astronomy	0	0	1	1	1	0	1	0	1	3
Chemistry	6	8	19	8	15	9	15	9	17	7
Physics	3	4	4	4	7	6	5	7	5	8
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	7	2	4	4	5	3	5	5	5	5
Mathematics	4	4	4	6	2	3	6	7	8	6
Computer sciences	3	1	2	3	1	2	3	1	4	2
Biological sciences	24	24	30	28	28	44	54	41	48	47
Agricultural sciences	5	4	6	4	2	2	10	3	8	4
Psychology	37	42	40	48	38	49	53	43	61	56
Social sciences[1]	21	21	20	26	22	25	41	35	34	33
Non-S&E, total[1]	99	130	163	140	144	145	201	186	201	214
Health	5	8	5	8	6	7	15	16	11	7
Humanities[1]	24	35	42	34	41	38	59	49	62	89
Education	58	74	102	93	79	90	116	103	115	115
Professional/other	12	13	14	5	18	10	11	18	13	23
Grand total, all fields	219	252	308	291	293	307	424	350	414	401
	U.S. citizens or permanent residents, other Hispanic									
Science and engineering, total[1]	273	308	272	285	335	326	358	373	330	327
Engineering, total	48	44	41	45	49	55	63	46	36	60
Chemical	12	7	4	6	11	3	9	5	9	5
Civil	4	11	11	3	3	5	10	7	3	6
Electrical	11	10	14	9	14	17	21	14	12	12
Mechanical	8	4	5	5	6	6	11	6	4	16
Other engineering	13	12	7	22	15	24	12	14	8	21
Sciences, total[1]	225	264	231	240	286	271	295	327	294	267
Physical sciences, total	43	50	40	39	32	34	22	25	35	35
Astronomy	3	2	1	2	1	3	0	1	2	4
Chemistry	22	29	21	18	12	22	10	19	15	23
Physics	18	19	18	19	19	9	12	5	17	6
Other physical sciences	0	0	0	0	0	0	0	0	1	0
Earth, atmospheric, & ocean sciences	6	10	4	7	11	7	6	11	8	7
Mathematics	6	11	8	8	8	13	14	6	5	7
Computer sciences	4	5	1	3	10	8	10	7	5	5
Biological sciences	51	63	73	69	71	66	71	87	94	69
Agricultural sciences	10	6	14	14	7	20	22	11	14	11
Psychology	61	65	50	54	87	66	84	115	76	73
Social sciences[1]	44	54	41	46	62	57	66	65	57	60
Non-S&E, total[1]	188	180	193	219	233	253	237	265	234	233
Health	4	13	14	10	25	15	15	19	14	18
Humanities[1]	83	73	88	90	99	121	102	117	102	119
Education	80	78	71	98	87	95	97	110	94	70
Professional/other	21	16	20	23	22	22	23	19	24	26
Grand total, all fields	461	488	465	504	568	579	595	638	564	560

See explanatory information, if any, and SOURCE at end of table.

Table 3. Doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	U.S. citizens or permanent residents, white									
Science and engineering, total[1]	13,322	13,729	13,882	13,889	13,997	13,827	14,001	13,717	13,431	12,708
Engineering, total	1,879	2,024	2,020	2,092	2,263	2,287	2,170	2,110	1,886	1,746
Chemical	284	295	259	256	274	293	275	286	280	268
Civil	166	168	199	194	199	220	216	241	193	194
Electrical	487	553	548	590	589	579	523	510	442	370
Mechanical	325	328	337	339	392	376	371	335	279	300
Other engineering	617	680	677	713	809	819	785	738	692	614
Sciences, total[1]	11,443	11,705	11,862	11,797	11,734	11,540	11,831	11,607	11,545	10,962
Physical sciences, total	1,973	1,911	2,024	1,924	1,884	1,883	1,915	1,839	1,691	1,647
Astronomy	95	100	97	111	131	132	120	109	115	103
Chemistry	1,219	1,145	1,179	1,112	1,061	1,078	1,129	1,090	988	974
Physics	641	656	735	687	683	658	650	629	571	555
Other physical sciences	18	10	13	14	9	15	16	11	17	15
Earth, atmospheric, & ocean sciences	485	455	504	464	449	487	464	433	430	394
Mathematics	425	476	479	535	478	479	526	505	463	427
Computer sciences	378	409	401	450	356	361	412	356	335	319
Biological sciences	3,068	3,144	3,105	3,115	3,171	3,158	3,246	3,128	3,306	3,240
Agricultural sciences	493	438	487	473	443	411	417	398	414	371
Psychology	2,635	2,803	2,729	2,723	2,745	2,525	2,645	2,702	2,603	2,438
Social sciences[1]	1,986	2,069	2,133	2,113	2,208	2,236	2,206	2,246	2,303	2,126
Non-S&E, total[1]	10,296	10,306	10,692	10,800	10,673	10,135	10,272	10,175	10,256	9,879
Health	735	800	867	833	822	828	929	837	961	910
Humanities[1]	3,060	3,105	3,276	3,514	3,483	3,524	3,604	3,615	3,701	3,607
Education	5,049	4,960	5,041	4,848	4,939	4,458	4,408	4,505	4,364	4,188
Professional/other	1,452	1,441	1,508	1,605	1,429	1,325	1,331	1,218	1,230	1,174
Grand total, all fields	23,618	24,035	24,574	24,689	24,670	23,962	24,273	23,892	23,687	22,587
	U.S. citizens or permanent residents, men									
Science and engineering, total[1]	10,365	10,549	11,693	12,084	11,683	11,408	11,087	10,494	9,983	9,395
Engineering, total	2,192	2,349	2,605	2,822	2,863	2,820	2,594	2,396	2,079	1,961
Chemical	296	313	302	293	293	332	298	296	282	263
Civil	192	195	237	257	258	269	239	251	212	203
Electrical	652	715	811	851	823	834	713	684	554	494
Mechanical	401	398	484	514	528	483	456	403	341	389
Other engineering	651	728	771	907	961	902	878	762	690	612
Sciences, total[1]	8,173	8,200	9,088	9,262	8,820	8,588	8,493	8,098	7,904	7,434
Physical sciences, total	1,843	1,809	2,164	2,133	1,960	1,910	1,851	1,724	1,546	1,517
Astronomy	91	88	91	116	114	132	120	91	104	94
Chemistry	1,040	999	1,152	1,087	1,023	1,008	1,004	980	819	821
Physics	696	712	907	916	815	759	716	647	609	590
Other physical sciences	16	10	14	14	8	11	11	6	14	12
Earth, atmospheric, & ocean sciences	394	384	469	450	428	443	391	373	341	302
Mathematics	390	426	506	588	503	452	471	413	410	369
Computer sciences	406	400	449	473	423	420	438	387	371	322
Biological sciences	2,130	2,168	2,345	2,470	2,424	2,336	2,387	2,260	2,281	2,258
Agricultural sciences	423	372	456	463	401	395	360	333	336	265
Psychology	1,206	1,223	1,169	1,128	1,049	1,022	1,063	1,064	1,053	978
Social sciences[1]	1,381	1,418	1,530	1,557	1,632	1,610	1,532	1,544	1,566	1,423
Non-S&E, total[1]	5,447	5,439	5,681	5,793	5,521	5,510	5,483	5,397	5,309	5,193
Health	226	260	328	325	293	288	310	329	341	334
Humanities[1]	1,832	1,815	1,978	2,076	2,001	2,202	2,221	2,209	2,214	2,148
Education	2,347	2,378	2,309	2,243	2,243	2,061	2,056	2,012	1,923	1,886
Professional/other	1,042	986	1,066	1,149	984	959	896	847	831	825
Grand total, all fields	15,812	15,988	17,374	17,877	17,204	16,918	16,570	15,891	15,292	14,588

See explanatory information, if any, and SOURCE at end of table.

Table 3. Doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	U.S. citizens or permanent residents, men, American Indian/Alaskan Native									
Science and engineering, total[1]	42	25	40	42	61	45	55	59	43	42
Engineering, total	8	2	4	9	12	14	9	10	4	5
Chemical	1	1	1	2	1	3	0	1	0	1
Civil	0	0	0	0	1	1	0	1	0	0
Electrical	3	0	1	1	1	5	3	1	0	1
Mechanical	1	0	0	2	3	5	2	2	2	1
Other engineering	3	1	2	4	6	0	4	5	2	2
Sciences, total[1]	34	23	36	33	49	31	46	49	39	37
Physical sciences, total	10	3	5	5	5	10	9	6	7	10
Astronomy	0	1	0	0	0	1	1	0	0	1
Chemistry	4	1	4	3	3	6	6	3	6	9
Physics	6	1	1	2	2	2	2	3	1	0
Other physical sciences	0	0	0	0	0	1	0	0	0	0
Earth, atmospheric, & ocean sciences	1	4	1	0	2	1	2	3	4	0
Mathematics	1	1	2	1	1	1	1	1	1	1
Computer sciences	2	0	0	0	2	0	4	0	1	1
Biological sciences	8	5	11	10	11	4	6	10	10	8
Agricultural sciences	0	1	1	2	2	5	7	1	3	0
Psychology	6	6	5	6	9	6	13	12	3	5
Social sciences[1]	6	3	11	9	17	4	4	16	10	12
Non-S&E, total[1]	40	35	31	38	41	34	50	37	33	27
Health	3	0	1	2	1	2	1	0	1	2
Humanities[1]	12	7	12	10	10	8	14	11	11	9
Education	20	21	10	17	22	18	26	19	17	12
Professional/other	5	7	8	9	8	6	9	7	4	4
Grand total, all fields	82	60	71	80	102	79	105	96	76	69
	U.S. citizens or permanent residents, men, Asian/Pacific Islander									
Science and engineering, total[1]	925	1,070	2,164	2,548	2,105	1,641	1,375	1,219	1,027	950
Engineering, total	389	465	746	862	762	588	457	428	330	326
Chemical	38	55	71	76	62	61	46	44	48	33
Civil	32	39	65	77	75	58	32	41	33	28
Electrical	154	173	272	276	246	217	174	146	108	105
Mechanical	74	90	155	165	149	97	79	77	56	68
Other engineering	91	108	183	268	230	155	126	120	85	92
Sciences, total[1]	536	605	1,418	1,686	1,343	1,053	918	791	697	624
Physical sciences, total	147	164	421	539	356	268	230	160	132	128
Astronomy	2	1	9	18	8	7	10	3	9	6
Chemistry	79	84	203	269	187	142	134	103	67	64
Physics	66	78	207	251	160	119	85	54	56	58
Other physical sciences	0	1	2	1	1	0	1	0	0	0
Earth, atmospheric, & ocean sciences	19	14	72	76	65	52	32	28	16	25
Mathematics	33	43	116	158	104	69	44	36	49	32
Computer sciences	74	58	100	107	95	81	67	68	61	41
Biological sciences	136	195	451	511	482	373	366	332	276	283
Agricultural sciences	25	20	52	62	51	45	29	28	21	7
Psychology	19	22	32	43	31	31	29	34	47	29
Social sciences[1]	83	89	174	190	159	134	121	105	95	79
Non-S&E, total[1]	208	208	297	312	285	245	259	258	213	241
Health	22	22	48	52	47	37	35	39	36	37
Humanities[1]	48	42	82	83	83	72	79	82	63	79
Education	47	58	65	59	69	52	71	63	52	46
Professional/other	91	86	102	118	86	84	74	74	62	79
Grand total, all fields	1,133	1,278	2,461	2,860	2,390	1,886	1,634	1,477	1,240	1,191

See explanatory information, if any, and SOURCE at end of table.

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Table 3. Doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	U.S. citizens or permanent residents, men, black									
Science and engineering, total[1]	238	261	283	287	322	330	295	347	319	323
Engineering, total	43	39	41	55	55	75	61	74	57	67
Chemical	12	3	4	2	7	10	2	7	3	7
Civil	3	3	6	8	7	10	8	4	5	11
Electrical	15	13	14	20	17	27	19	25	19	21
Mechanical	5	3	6	12	7	11	14	11	13	16
Other engineering	8	17	11	13	17	17	18	27	17	12
Sciences, total[1]	195	222	242	232	267	255	234	273	262	256
Physical sciences, total	19	31	33	24	47	41	25	37	41	34
Astronomy	0	2	0	1	0	1	1	0	0	1
Chemistry	12	22	25	16	35	26	17	33	25	23
Physics	6	7	7	7	12	14	7	4	15	10
Other physical sciences	1	0	1	0	0	0	0	0	1	0
Earth, atmospheric, & ocean sciences	5	4	5	3	2	7	6	9	3	3
Mathematics	4	7	8	4	6	5	9	6	7	12
Computer sciences	4	2	8	7	9	3	6	9	13	5
Biological sciences	38	43	33	64	58	52	41	50	44	54
Agricultural sciences	10	12	16	11	24	18	15	16	10	6
Psychology	28	44	46	39	38	41	43	37	45	50
Social sciences[1]	87	79	93	80	83	88	89	109	99	92
Non-S&E, total[1]	278	318	270	325	317	307	318	352	322	348
Health	14	18	11	18	13	15	14	12	14	12
Humanities[1]	46	56	51	54	53	68	67	70	69	65
Education	174	201	162	203	202	171	193	201	186	210
Professional/other	44	43	46	50	49	53	44	69	53	61
Grand total, all fields	516	579	553	612	639	637	613	699	641	671
	U.S. citizens or permanent residents, men, Hispanic, total									
Science and engineering, total[1]	308	320	318	341	353	393	428	359	380	337
Engineering, total	56	54	60	66	84	74	97	59	69	69
Chemical	12	7	7	11	13	4	13	3	14	2
Civil	8	10	11	10	6	11	13	6	8	7
Electrical	14	14	21	14	23	20	29	25	21	19
Mechanical	9	5	7	8	13	12	18	8	11	21
Other engineering	15	18	14	23	29	27	24	17	15	20
Sciences, total[1]	252	266	258	275	269	319	331	300	311	268
Physical sciences, total	52	59	69	52	55	54	43	41	53	43
Astronomy	3	2	2	2	1	2	2	1	2	6
Chemistry	26	33	43	29	29	32	25	25	30	26
Physics	23	24	24	21	25	20	16	15	20	11
Other physical sciences	0	0	0	0	0	0	0	0	1	0
Earth, atmospheric, & ocean sciences	10	11	6	7	13	11	10	17	15	6
Mathematics	9	14	10	11	11	14	20	10	8	10
Computer sciences	7	6	7	2	9	14	14	11	11	4
Biological sciences	59	57	69	80	65	83	89	99	82	88
Agricultural sciences	14	15	13	16	9	19	22	8	15	10
Psychology	55	45	43	49	53	64	56	57	60	48
Social sciences[1]	46	59	41	58	54	60	77	57	67	61
Non-S&E, total[1]	174	197	200	201	214	232	255	219	230	232
Health	4	8	7	15	16	8	12	15	10	9
Humanities[1]	66	72	79	72	85	107	103	90	98	98
Education	82	94	82	91	87	93	112	91	99	90
Professional/other	22	23	32	23	26	24	28	23	23	35
Grand total, all fields	482	517	518	542	567	625	683	578	610	569

See explanatory information, if any, and SOURCE at end of table.

Table 3. Doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	U.S. citizens or permanent residents, men, Puerto Rican									
Science and engineering, total[1]	71	70	72	74	74	98	69	88	79	68
Engineering, total	10	8	10	11	17	19	16	15	16	9
Chemical	3	2	2	3	2	1	3	1	3	0
Civil	1	0	1	1	1	5	1	1	2	2
Electrical	2	4	3	3	4	3	3	9	6	2
Mechanical	0	1	1	1	3	6	5	2	2	1
Other engineering	4	1	3	3	7	4	4	2	3	4
Sciences, total[1]	61	62	62	63	57	79	53	73	63	59
Physical sciences, total	14	12	19	12	8	18	6	13	10	10
Astronomy	1	0	0	0	0	0	1	0	0	0
Chemistry	9	9	13	9	6	11	4	9	9	8
Physics	4	3	6	3	2	7	1	4	1	2
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	3	1	0	1	3	4	2	4	5	1
Mathematics	1	1	1	0	3	3	4	2	1	2
Computer sciences	1	0	4	0	4	6	1	5	5	1
Biological sciences	16	16	14	21	14	20	20	24	11	18
Agricultural sciences	3	7	2	3	3	3	2	0	3	2
Psychology	16	13	13	13	15	20	12	16	15	9
Social sciences[1]	7	12	9	13	7	5	6	9	13	16
Non-S&E, total[1]	39	51	51	46	40	55	59	53	52	53
Health	3	0	2	7	2	3	3	5	3	2
Humanities[1]	10	18	16	14	16	26	20	14	19	18
Education	23	25	23	19	17	21	28	24	24	25
Professional/other	3	8	10	6	5	5	8	10	6	8
Grand total, all fields	110	121	123	120	114	153	128	141	131	121
	U.S. citizens or permanent residents, men, Mexican American									
Science and engineering, total[1]	79	73	87	90	95	92	136	91	127	103
Engineering, total	10	10	13	18	25	12	27	9	23	13
Chemical	1	1	1	2	3	2	1	0	3	0
Civil	2	0	2	7	2	1	4	1	4	0
Electrical	3	2	4	3	8	2	7	3	4	6
Mechanical	2	0	2	2	4	3	3	1	6	4
Other engineering	2	7	4	4	8	4	12	4	6	3
Sciences, total[1]	69	63	74	72	70	80	109	82	104	90
Physical sciences, total	7	9	20	9	20	13	18	11	20	14
Astronomy	0	0	1	0	1	0	1	0	1	3
Chemistry	4	6	16	6	13	7	12	5	14	5
Physics	3	3	3	3	6	6	5	6	5	6
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	5	2	4	3	3	2	4	4	4	2
Mathematics	4	3	3	4	2	2	3	5	4	3
Computer sciences	3	1	2	1	1	2	3	1	3	2
Biological sciences	11	13	17	17	16	22	32	25	27	30
Agricultural sciences	4	3	4	3	1	2	7	3	4	2
Psychology	19	16	17	15	18	20	18	16	22	20
Social sciences[1]	16	16	7	20	9	17	24	17	20	17
Non-S&E, total[1]	46	59	74	70	71	70	84	72	82	95
Health	0	3	2	3	2	0	1	5	2	2
Humanities[1]	14	19	23	21	21	22	33	27	27	30
Education	26	30	38	42	38	42	45	35	46	50
Professional/other	6	7	11	4	10	6	5	5	7	13
Grand total, all fields	125	132	161	160	166	162	220	163	209	198

See explanatory information, if any, and SOURCE at end of table.

Table 3. Doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	U.S. citizens or permanent residents, men, other Hispanic									
Science and engineering, total[1]	158	177	159	177	184	203	223	180	174	166
Engineering, total	36	36	37	37	42	43	54	35	30	47
Chemical	8	4	4	6	8	1	9	2	8	2
Civil	3	10	8	2	3	5	8	4	2	5
Electrical	9	8	14	8	11	15	19	13	11	11
Mechanical	7	4	4	5	6	3	10	5	3	16
Other engineering	9	10	7	16	14	19	8	11	6	13
Sciences, total[1]	122	141	122	140	142	160	169	145	144	119
Physical sciences, total	31	38	30	31	27	23	19	17	23	19
Astronomy	2	2	1	2	0	2	0	1	1	3
Chemistry	13	18	14	14	10	14	9	11	7	13
Physics	16	18	15	15	17	7	10	5	14	3
Other physical sciences	0	0	0	0	0	0	0	0	1	0
Earth, atmospheric, & ocean sciences	2	8	2	3	7	5	4	8	6	3
Mathematics	4	10	6	7	6	9	13	3	3	5
Computer sciences	3	5	1	1	4	6	10	5	3	1
Biological sciences	32	28	38	42	35	41	37	50	44	40
Agricultural sciences	7	5	7	10	5	14	13	8	8	6
Psychology	20	16	13	21	20	24	26	25	23	17
Social sciences[1]	23	31	25	25	38	38	47	31	34	28
Non-S&E, total[1]	89	87	75	85	103	107	112	94	96	84
Health	1	5	3	5	12	5	8	5	5	5
Humanities[1]	42	35	40	37	48	59	50	49	52	50
Education	33	39	21	30	32	30	39	32	29	15
Professional/other	13	8	11	13	11	13	15	8	10	14
Grand total, all fields	247	264	234	262	287	310	335	274	270	250
	U.S. citizens or permanent residents, men, white									
Science and engineering, total[1]	8,621	8,720	8,726	8,674	8,646	8,559	8,509	8,261	7,928	7,451
Engineering, total	1,639	1,784	1,715	1,771	1,915	1,965	1,863	1,758	1,553	1,429
Chemical	225	244	211	196	205	241	223	236	213	210
Civil	147	143	153	160	168	180	171	194	159	143
Electrical	447	504	494	523	523	525	470	466	387	335
Mechanical	306	296	311	314	353	343	334	290	246	273
Other engineering	514	577	546	578	666	666	665	572	548	468
Sciences, total[1]	6,982	6,956	7,013	6,903	6,731	6,604	6,646	6,503	6,375	6,022
Physical sciences, total	1,574	1,523	1,616	1,476	1,454	1,471	1,466	1,443	1,272	1,253
Astronomy	84	79	78	92	101	110	96	86	89	76
Chemistry	901	846	872	760	753	773	785	797	665	677
Physics	575	590	655	613	583	578	576	554	506	488
Other physical sciences	14	8	11	11	7	10	9	6	12	12
Earth, atmospheric, & ocean sciences	353	345	381	356	340	358	324	307	290	255
Mathematics	332	352	361	409	373	344	376	347	338	308
Computer sciences	309	326	326	347	295	295	328	285	273	259
Biological sciences	1,847	1,833	1,758	1,770	1,772	1,760	1,810	1,726	1,798	1,760
Agricultural sciences	364	323	367	369	307	293	277	273	278	236
Psychology	1,078	1,094	1,028	981	909	833	882	913	880	821
Social sciences[1]	1,125	1,160	1,176	1,195	1,281	1,250	1,183	1,209	1,246	1,130
Non-S&E, total[1]	4,654	4,619	4,819	4,844	4,577	4,437	4,376	4,416	4,372	4,196
Health	177	208	258	233	212	219	234	257	271	267
Humanities[1]	1,628	1,604	1,723	1,817	1,735	1,846	1,855	1,904	1,897	1,814
Education	1,996	1,990	1,966	1,855	1,830	1,622	1,585	1,602	1,533	1,491
Professional/other	853	817	872	939	800	750	702	653	671	624
Grand total, all fields	13,275	13,339	13,547	13,518	13,223	12,996	12,885	12,677	12,300	11,647

See explanatory information, if any, and SOURCE at end of table.

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Table 3. Doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	U.S. citizens or permanent residents, women									
Science and engineering, total[1]	5,577	6,024	6,494	6,913	6,967	6,990	7,170	7,071	7,123	6,867
Engineering, total	328	348	448	520	526	512	452	492	490	474
Chemical	82	64	78	88	98	77	76	75	100	92
Civil	23	32	55	52	47	58	58	61	48	66
Electrical	67	80	88	120	106	106	91	81	93	67
Mechanical	25	36	54	49	60	55	50	60	56	38
Other engineering	131	136	173	211	215	216	177	215	193	211
Sciences, total[1]	5,249	5,676	6,046	6,393	6,441	6,478	6,718	6,579	6,633	6,393
Physical sciences, total	514	521	625	708	610	587	604	553	546	526
Astronomy	15	23	21	25	35	26	27	28	35	29
Chemistry	401	401	464	537	439	431	463	426	422	408
Physics	94	94	137	143	134	124	107	95	83	86
Other physical sciences	4	3	3	3	2	6	7	6	6	3
Earth, atmospheric, & ocean sciences	147	120	144	144	130	164	171	152	167	162
Mathematics	117	164	151	183	145	177	198	192	163	153
Computer sciences	83	109	94	143	91	100	123	105	86	98
Biological sciences	1,438	1,584	1,743	1,859	1,941	1,920	1,921	1,864	1,984	1,958
Agricultural sciences	150	134	160	135	175	155	183	161	166	164
Psychology	1,780	1,938	1,967	2,057	2,186	2,108	2,211	2,229	2,177	2,035
Social sciences[1]	1,020	1,106	1,162	1,164	1,163	1,267	1,307	1,323	1,344	1,297
Non-S&E, total[1]	6,601	6,695	7,029	7,271	7,371	7,185	7,421	7,328	7,497	7,274
Health	629	679	722	719	723	740	844	720	854	805
Humanities[1]	1,608	1,696	1,788	1,980	2,046	2,034	2,106	2,082	2,174	2,213
Education	3,670	3,590	3,757	3,752	3,831	3,691	3,691	3,800	3,749	3,545
Professional/other	694	730	762	820	771	720	780	726	720	711
Grand total, all fields	12,178	12,719	13,523	14,184	14,338	14,175	14,591	14,399	14,620	14,141
	U.S. citizens or permanent residents, women, American Indian/Alaskan Native									
Science and engineering, total[1]	27	18	24	25	35	34	42	55	45	32
Engineering, total	3	0	2	0	2	3	4	2	4	2
Chemical	0	0	0	0	0	1	3	1	1	0
Civil	1	0	0	0	1	1	0	1	1	0
Electrical	1	0	0	0	1	0	0	0	0	0
Mechanical	0	0	0	0	0	1	0	0	1	0
Other engineering	1	0	2	0	0	0	1	0	1	2
Sciences, total[1]	24	18	22	25	33	31	38	53	41	30
Physical sciences, total	2	2	1	2	1	0	1	3	2	2
Astronomy	0	0	0	0	0	0	0	1	1	0
Chemistry	2	1	0	2	1	0	1	2	1	2
Physics	0	1	1	0	0	0	0	0	0	0
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	0	0	0	0	0	1	1	3	1	0
Mathematics	1	0	0	1	0	0	2	0	1	1
Computer sciences	0	1	1	0	2	1	0	1	0	0
Biological sciences	5	2	5	5	9	3	6	10	7	7
Agricultural sciences	0	0	0	0	4	0	2	0	1	0
Psychology	9	9	7	8	9	12	18	23	19	12
Social sciences[1]	7	4	8	9	8	14	8	13	10	8
Non-S&E, total[1]	40	42	48	42	50	54	43	63	48	50
Health	2	6	5	7	3	4	3	6	3	4
Humanities[1]	6	3	8	8	8	11	7	10	9	12
Education	30	30	27	24	38	33	24	39	34	30
Professional/other	2	3	8	3	1	6	9	8	2	4
Grand total, all fields	67	60	72	67	85	88	85	118	93	82

See explanatory information, if any, and SOURCE at end of table.

Table 3. Doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	U.S. citizens or permanent residents, women, Asian/Pacific Islander									
Science and engineering, total[1]	412	529	817	1,111	974	889	760	717	678	686
Engineering, total	61	61	119	170	134	119	97	84	109	96
Chemical	16	7	25	25	18	12	19	14	21	19
Civil	2	2	4	14	14	14	6	5	10	9
Electrical	21	25	31	46	30	39	31	26	33	28
Mechanical	4	3	24	23	17	16	10	11	16	8
Other engineering	18	24	35	62	55	38	31	28	29	32
Sciences, total[1]	351	468	698	941	840	770	663	633	569	590
Physical sciences, total	79	96	177	210	145	132	101	93	71	74
Astronomy	2	2	1	4	4	1	3	0	4	0
Chemistry	55	71	128	146	108	92	72	80	54	61
Physics	22	23	47	60	33	38	26	13	12	13
Other physical sciences	0	0	1	0	0	1	0	0	1	0
Earth, atmospheric, & ocean sciences	8	8	17	28	12	19	19	11	11	10
Mathematics	18	36	26	49	36	28	27	21	21	16
Computer sciences	12	19	16	30	16	26	23	19	15	20
Biological sciences	132	171	268	409	403	348	291	277	262	269
Agricultural sciences	12	9	20	16	29	18	18	18	9	9
Psychology	37	51	76	78	90	95	84	98	99	91
Social sciences[1]	53	78	98	121	109	104	100	96	81	101
Non-S&E, total[1]	209	195	255	326	310	335	313	305	353	324
Health	30	23	45	41	40	50	48	48	63	69
Humanities[1]	51	64	67	109	104	107	113	111	113	105
Education	96	84	107	120	111	128	106	103	120	106
Professional/other	32	24	36	56	55	50	46	43	57	44
Grand total, all fields	621	724	1,072	1,437	1,284	1,224	1,073	1,022	1,031	1,010
	U.S. citizens or permanent residents, women, black									
Science and engineering, total[1]	166	207	216	263	251	285	351	367	392	373
Engineering, total	6	11	13	15	19	23	22	24	24	25
Chemical	1	3	4	1	5	6	1	4	5	10
Civil	0	2	2	3	1	0	2	2	1	0
Electrical	2	2	3	4	5	4	4	5	2	1
Mechanical	0	0	1	1	3	1	0	1	5	1
Other engineering	3	4	3	6	5	12	15	12	11	13
Sciences, total[1]	160	196	203	248	232	262	329	343	368	348
Physical sciences, total	6	10	13	18	13	11	31	29	21	20
Astronomy	1	0	0	0	0	1	0	2	1	0
Chemistry	5	9	9	17	10	9	28	23	19	19
Physics	0	0	4	1	3	1	3	4	1	1
Other physical sciences	0	1	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	1	0	1	0	2	1	2	5	4	2
Mathematics	0	1	3	1	2	2	7	6	7	7
Computer sciences	1	4	2	4	3	1	8	9	5	10
Biological sciences	24	32	45	43	40	60	70	66	74	82
Agricultural sciences	3	4	6	6	0	6	4	8	8	6
Psychology	75	74	78	110	114	110	115	135	145	124
Social sciences[1]	50	71	55	66	58	71	92	85	104	97
Non-S&E, total[1]	427	492	509	586	557	552	642	694	716	677
Health	24	41	35	42	35	40	51	45	61	52
Humanities[1]	43	42	55	61	63	73	72	94	88	102
Education	327	355	359	420	405	382	462	486	508	457
Professional/other	33	54	60	63	54	57	57	69	59	66
Grand total, all fields	593	699	725	849	808	837	993	1,061	1,108	1,050

See explanatory information, if any, and SOURCE at end of table.

Table 3. Doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	U.S. citizens or permanent residents, women, Hispanic, total									
Science and engineering, total[1]	205	222	230	232	273	266	326	362	348	332
Engineering, total	15	12	6	11	15	23	13	23	13	22
Chemical	4	3	0	2	6	3	0	4	4	5
Civil	1	2	3	1	0	1	3	6	1	2
Electrical	3	3	0	1	4	6	2	4	1	3
Mechanical	2	0	1	0	0	3	1	1	1	0
Other engineering	5	4	2	7	5	10	7	8	6	12
Sciences, total[1]	190	210	224	221	258	243	313	339	335	310
Physical sciences, total	20	20	21	21	12	15	11	22	25	22
Astronomy	1	0	0	2	1	1	0	0	1	1
Chemistry	16	18	16	14	7	12	9	21	21	17
Physics	3	2	5	5	4	2	2	1	3	4
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	6	2	2	6	6	5	6	4	3	9
Mathematics	3	2	3	4	0	6	7	5	7	5
Computer sciences	1	1	0	4	7	2	1	3	3	4
Biological sciences	43	57	62	47	66	63	79	76	91	76
Agricultural sciences	4	5	12	5	4	7	13	7	11	9
Psychology	78	86	90	97	120	107	152	158	151	128
Social sciences[1]	35	37	34	37	43	38	44	64	44	57
Non-S&E, total[1]	222	233	282	290	273	308	318	383	349	361
Health	9	16	18	15	22	24	25	31	24	20
Humanities[1]	63	72	89	82	93	101	95	107	110	131
Education	132	128	159	167	131	164	178	212	185	182
Professional/other	18	17	16	26	27	19	20	33	30	28
Grand total, all fields	427	455	512	522	546	574	644	745	697	693
	U.S. citizens or permanent residents, women, Puerto Rican									
Science and engineering, total[1]	49	42	59	63	68	73	104	96	106	87
Engineering, total	3	2	0	2	5	4	1	8	4	4
Chemical	0	0	0	1	2	0	0	1	2	2
Civil	0	1	0	0	0	0	0	1	0	0
Electrical	1	1	0	0	0	1	0	2	0	0
Mechanical	1	0	0	0	0	0	0	0	0	0
Other engineering	1	0	0	1	3	3	1	4	2	2
Sciences, total[1]	46	40	59	61	63	69	103	88	102	83
Physical sciences, total	6	5	7	9	4	2	5	9	10	4
Astronomy	0	0	0	1	0	0	0	0	0	0
Chemistry	5	5	6	8	3	2	5	9	10	3
Physics	1	0	1	0	1	0	0	0	0	1
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	0	0	0	1	0	2	3	1	0	2
Mathematics	1	0	0	1	0	1	3	0	1	0
Computer sciences	0	1	0	0	1	0	1	1	0	0
Biological sciences	11	11	14	9	18	16	23	23	22	30
Agricultural sciences	0	3	3	0	1	1	1	1	3	2
Psychology	19	11	30	31	33	36	59	41	59	36
Social sciences[1]	9	9	5	10	6	11	8	12	7	9
Non-S&E, total[1]	70	69	75	86	70	87	76	98	92	93
Health	1	3	4	5	5	7	4	6	6	2
Humanities[1]	12	18	22	16	22	23	17	17	25	23
Education	53	45	45	50	35	51	49	66	51	62
Professional/other	4	3	4	15	8	6	6	9	10	6
Grand total, all fields	119	111	134	149	138	160	180	194	198	180

See explanatory information, if any, and SOURCE at end of table.

Table 3. Doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	U.S. citizens or permanent residents, women, Mexican American									
Science and engineering, total[1]	41	49	58	61	54	70	87	73	86	84
Engineering, total	0	2	2	1	3	7	3	4	3	5
Chemical	0	0	0	1	1	1	0	0	1	0
Civil	0	0	0	0	0	1	1	2	0	1
Electrical	0	0	0	0	1	3	0	1	0	2
Mechanical	0	0	0	0	0	0	0	0	0	0
Other engineering	0	2	2	0	1	2	2	1	2	2
Sciences, total[1]	41	47	56	60	51	63	84	69	83	79
Physical sciences, total	2	3	4	4	3	2	3	5	3	2
Astronomy	0	0	0	1	0	0	0	0	0	0
Chemistry	2	2	3	2	2	2	3	4	3	2
Physics	0	1	1	1	1	0	0	1	0	0
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	2	0	0	1	2	1	1	1	1	3
Mathematics	0	1	1	2	0	1	3	2	4	3
Computer sciences	0	0	0	2	0	0	0	0	1	0
Biological sciences	13	11	13	11	12	22	22	16	19	17
Agricultural sciences	1	1	2	1	1	0	3	0	2	2
Psychology	18	26	23	33	20	29	35	27	39	36
Social sciences[1]	5	5	13	6	13	8	17	18	14	16
Non-S&E, total[1]	53	71	89	70	73	75	117	114	119	119
Health	5	5	3	5	4	7	14	11	9	5
Humanities[1]	10	16	19	13	20	16	26	22	35	39
Education	32	44	64	51	41	48	71	68	69	65
Professional/other	6	6	3	1	8	4	6	13	6	10
Grand total, all fields	94	120	147	131	127	145	204	187	205	203
	U.S. citizens or permanent residents, women, other Hispanic									
Science and engineering, total[1]	115	131	113	108	151	123	135	193	156	161
Engineering, total	12	8	4	8	7	12	9	11	6	13
Chemical	4	3	0	0	3	2	0	3	1	3
Civil	1	1	3	1	0	0	2	3	1	1
Electrical	2	2	0	1	3	2	2	1	1	1
Mechanical	1	0	1	0	0	3	1	1	1	0
Other engineering	4	2	0	6	1	5	4	3	2	8
Sciences, total[1]	103	123	109	100	144	111	126	182	150	148
Physical sciences, total	12	12	10	8	5	11	3	8	12	16
Astronomy	1	0	0	0	1	1	0	0	1	1
Chemistry	9	11	7	4	2	8	1	8	8	12
Physics	2	1	3	4	2	2	2	0	3	3
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	4	2	2	4	4	2	2	2	2	4
Mathematics	2	1	2	1	0	4	1	3	2	2
Computer sciences	1	0	0	2	6	2	0	2	2	4
Biological sciences	19	35	35	27	36	25	34	37	50	29
Agricultural sciences	3	1	7	4	2	6	9	6	6	5
Psychology	41	49	37	33	67	42	58	90	53	56
Social sciences[1]	21	23	16	21	24	19	19	34	23	32
Non-S&E, total[1]	99	93	118	134	130	146	125	171	138	149
Health	3	8	11	5	13	10	7	14	9	13
Humanities[1]	41	38	48	53	51	62	52	68	50	69
Education	47	39	50	66	55	65	58	78	65	55
Professional/other	8	8	9	10	11	9	8	11	14	12
Grand total, all fields	214	224	231	242	281	269	260	364	294	310

See explanatory information, if any, and SOURCE at end of table.

Table 3. Doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	U.S. citizens or permanent residents, women, white									
Science and engineering, total[1]	4,701	5,009	5,154	5,215	5,351	5,268	5,492	5,456	5,503	5,257
Engineering, total	240	260	305	321	348	332	307	352	333	317
Chemical	59	51	48	60	69	52	52	50	67	58
Civil	19	25	46	34	31	40	45	47	34	51
Electrical	40	49	54	67	66	54	53	44	55	35
Mechanical	19	32	26	25	39	33	37	45	33	27
Other engineering	103	103	131	135	143	153	120	166	144	146
Sciences, total[1]	4,461	4,749	4,849	4,894	5,003	4,936	5,185	5,104	5,170	4,940
Physical sciences, total	399	388	408	448	430	412	449	396	419	394
Astronomy	11	21	19	19	30	22	24	23	26	27
Chemistry	318	299	307	352	308	305	344	293	323	297
Physics	66	66	80	74	90	80	74	75	65	67
Other physical sciences	4	2	2	3	2	5	7	5	5	3
Earth, atmospheric, & ocean sciences	132	110	123	108	109	129	140	126	140	139
Mathematics	93	124	118	126	105	135	150	158	125	119
Computer sciences	69	83	75	103	61	66	84	71	62	60
Biological sciences	1,221	1,311	1,347	1,345	1,399	1,398	1,436	1,402	1,508	1,480
Agricultural sciences	129	115	120	104	136	118	140	125	136	135
Psychology	1,557	1,709	1,701	1,742	1,836	1,692	1,763	1,789	1,723	1,617
Social sciences[1]	861	909	957	918	927	986	1,023	1,037	1,057	996
Non-S&E, total[1]	5,642	5,687	5,873	5,956	6,096	5,698	5,896	5,759	5,884	5,683
Health	558	592	609	600	610	609	695	580	690	643
Humanities[1]	1,432	1,501	1,553	1,697	1,748	1,678	1,749	1,711	1,804	1,793
Education	3,053	2,970	3,075	2,993	3,109	2,836	2,823	2,903	2,831	2,697
Professional/other	599	624	636	666	629	575	629	565	559	550
Grand total, all fields	10,343	10,696	11,027	11,171	11,447	10,966	11,388	11,215	11,387	10,940
	U.S. citizens									
Science and engineering, total[1]	14,559	14,932	15,166	15,488	15,641	16,117	16,238	15,913	15,692	14,999
Engineering, total	2,109	2,228	2,215	2,386	2,596	2,739	2,567	2,486	2,217	2,139
Chemical	318	324	293	291	318	321	328	333	339	327
Civil	164	168	203	206	212	249	246	261	220	222
Electrical	597	630	634	683	708	753	638	639	530	467
Mechanical	352	347	359	383	436	456	434	398	341	385
Other engineering	678	759	726	823	922	960	921	855	787	738
Sciences, total[1]	12,450	12,704	12,951	13,102	13,045	13,378	13,671	13,427	13,475	12,860
Physical sciences, total	2,157	2,093	2,198	2,137	2,077	2,131	2,141	2,035	1,890	1,860
Astronomy	100	106	103	120	137	151	132	111	127	119
Chemistry	1,328	1,272	1,291	1,238	1,169	1,234	1,288	1,256	1,119	1,126
Physics	709	704	789	764	762	731	705	657	625	602
Other physical sciences	20	11	15	15	9	15	16	11	19	13
Earth, atmospheric, & ocean sciences	506	463	507	478	462	537	500	474	474	428
Mathematics	454	496	504	554	490	530	576	539	517	468
Computer sciences	422	425	426	484	422	430	476	420	387	365
Biological sciences	3,328	3,449	3,422	3,494	3,547	3,670	3,756	3,660	3,901	3,876
Agricultural sciences	511	457	519	492	473	467	464	443	447	401
Psychology	2,900	3,071	3,052	3,084	3,131	3,041	3,181	3,223	3,154	2,938
Social sciences[1]	2,172	2,250	2,323	2,379	2,443	2,572	2,577	2,633	2,705	2,524
Non-S&E, total[1]	11,451	11,516	11,984	12,255	12,136	12,045	12,221	12,071	12,263	11,908
Health	809	879	961	938	933	959	1,072	972	1,120	1,070
Humanities[1]	3,211	3,273	3,486	3,748	3,728	3,947	4,023	4,008	4,155	4,096
Education	5,852	5,791	5,867	5,777	5,878	5,587	5,575	5,634	5,546	5,315
Professional/other	1,579	1,573	1,670	1,792	1,597	1,552	1,551	1,457	1,442	1,427
Grand total, all fields	26,010	26,448	27,150	27,743	27,777	28,162	28,459	27,984	27,955	26,907

See explanatory information, if any, and SOURCE at end of table.

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Table 3. Doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	U.S. citizens, American Indian/Alaskan Native									
Science and engineering, total[1]	69	43	64	67	95	79	97	114	88	72
Engineering, total	11	2	6	9	14	17	13	12	8	7
Chemical	1	1	1	2	1	4	3	2	1	1
Civil	1	0	0	0	2	2	0	2	1	0
Electrical	4	0	1	1	2	5	3	1	0	1
Mechanical	1	0	0	2	3	6	2	2	3	1
Other engineering	4	1	4	4	6	0	5	5	3	4
Sciences, total[1]	58	41	58	58	81	62	84	102	80	65
Physical sciences, total	12	5	6	7	6	10	10	9	9	12
Astronomy	0	1	0	0	0	1	1	1	1	1
Chemistry	6	2	4	5	4	6	7	5	7	11
Physics	6	2	2	2	2	2	2	3	1	0
Other physical sciences	0	0	0	0	0	1	0	0	0	0
Earth, atmospheric, & ocean sciences	1	4	1	0	2	2	3	6	5	0
Mathematics	2	1	2	2	1	1	3	1	2	1
Computer sciences	2	1	1	0	4	1	4	1	1	0
Biological sciences	13	7	16	15	20	7	12	20	17	15
Agricultural sciences	0	1	1	2	6	5	9	1	4	0
Psychology	15	15	12	14	18	18	31	35	22	17
Social sciences[1]	13	7	19	18	24	18	12	29	20	20
Non-S&E, total[1]	80	77	79	80	91	88	93	100	81	77
Health	5	6	6	9	4	6	4	6	4	6
Humanities[1]	18	10	20	18	18	19	21	21	20	21
Education	50	51	37	41	60	51	50	58	51	42
Professional/other	7	10	16	12	9	12	18	15	6	8
Grand total, all fields	149	120	143	147	186	167	190	214	169	149
	U.S. citizens, Asian/Pacific Islander									
Science and engineering, total[1]	643	701	728	884	821	1,001	869	992	990	1,058
Engineering, total	213	216	200	254	271	290	243	263	240	261
Chemical	25	26	27	27	27	17	36	32	43	37
Civil	12	10	7	15	17	13	16	20	18	15
Electrical	95	85	96	92	109	128	86	92	79	79
Mechanical	35	34	28	37	40	50	35	42	39	49
Other engineering	46	61	42	83	78	82	70	77	61	81
Sciences, total[1]	430	485	528	630	550	711	626	729	750	797
Physical sciences, total	107	116	120	146	105	151	117	124	102	125
Astronomy	2	2	4	4	5	6	6	2	8	6
Chemistry	64	74	69	90	55	82	71	88	49	72
Physics	41	40	46	52	45	63	40	34	44	47
Other physical sciences	0	0	1	0	0	0	0	0	1	0
Earth, atmospheric, & ocean sciences	14	6	7	8	8	17	7	15	9	15
Mathematics	20	28	18	24	23	33	25	30	44	30
Computer sciences	37	27	32	42	37	42	39	43	41	34
Biological sciences	133	186	193	225	233	255	249	289	317	365
Agricultural sciences	13	9	14	10	12	16	6	21	13	7
Psychology	44	52	80	83	75	101	92	110	121	108
Social sciences[1]	62	61	64	92	57	96	91	97	103	115
Non-S&E, total[1]	196	175	209	245	245	296	286	316	372	370
Health	32	17	35	22	37	42	32	45	55	71
Humanities[1]	46	51	57	84	78	104	101	112	124	123
Education	80	83	80	84	87	100	99	100	123	109
Professional/other	38	24	37	55	43	50	54	59	70	67
Grand total, all fields	839	876	937	1,129	1,066	1,297	1,155	1,308	1,362	1,428

See explanatory information, if any, and SOURCE at end of table.

Table 3. Doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	U.S. citizens, black									
Science and engineering, total[1]	320	375	390	461	488	530	576	637	647	625
Engineering, total	32	41	44	53	59	83	75	85	74	82
Chemical	8	4	6	2	10	12	3	9	8	16
Civil	0	3	8	7	6	9	8	5	5	7
Electrical	12	13	14	20	17	27	22	26	19	20
Mechanical	3	2	4	7	9	10	13	10	17	17
Other engineering	9	19	12	17	17	25	29	35	25	22
Sciences, total[1]	288	334	346	408	429	447	501	552	573	543
Physical sciences, total	21	29	33	36	46	46	51	54	52	45
Astronomy	1	2	0	1	0	2	1	2	1	1
Chemistry	13	19	23	27	34	31	40	46	36	36
Physics	6	7	9	8	12	13	10	6	15	8
Other physical sciences	1	1	1	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	5	2	3	2	3	4	7	11	7	5
Mathematics	4	5	9	4	8	6	12	10	14	17
Computer sciences	4	5	7	9	12	4	12	16	13	13
Biological sciences	47	64	66	90	82	101	101	109	110	121
Agricultural sciences	5	5	10	9	14	14	8	16	8	8
Psychology	99	116	112	143	144	141	152	168	185	169
Social sciences[1]	103	108	106	115	120	131	158	168	184	165
Non-S&E, total[1]	646	734	710	832	818	805	911	990	983	979
Health	35	52	41	55	42	51	60	51	67	60
Humanities[1]	83	82	94	97	105	125	131	150	144	157
Education	467	515	486	579	580	527	628	659	675	646
Professional/other	61	85	89	101	91	102	92	130	97	116
Grand total, all fields	966	1,109	1,100	1,293	1,306	1,335	1,487	1,627	1,630	1,604
	U.S. citizens, Hispanic, total									
Science and engineering, total[1]	433	444	463	488	534	575	683	646	649	581
Engineering, total	57	56	49	61	87	83	100	71	69	73
Chemical	10	10	5	12	15	6	10	5	13	5
Civil	6	7	7	7	2	10	15	11	8	8
Electrical	14	16	16	14	27	23	27	28	19	15
Mechanical	10	3	7	5	11	14	19	8	10	17
Other engineering	17	20	14	23	32	30	29	19	19	28
Sciences, total[1]	376	388	414	427	447	492	583	575	580	508
Physical sciences, total	58	65	75	61	51	58	49	56	72	61
Astronomy	4	1	2	3	1	3	2	1	1	7
Chemistry	34	43	49	38	32	36	34	41	49	39
Physics	20	21	24	20	18	19	13	14	21	15
Other physical sciences	0	0	0	0	0	0	0	0	1	0
Earth, atmospheric, & ocean sciences	13	8	7	7	13	16	15	19	18	11
Mathematics	10	9	12	12	9	17	25	12	13	14
Computer sciences	7	5	5	6	12	15	13	12	11	6
Biological sciences	90	93	111	104	109	131	150	155	154	140
Agricultural sciences	9	14	16	10	9	14	25	10	17	14
Psychology	122	120	128	138	167	161	197	205	203	159
Social sciences[1]	67	74	60	89	77	80	109	106	92	94
Non-S&E, total[1]	345	389	421	434	423	489	522	538	530	538
Health	12	19	20	29	31	29	37	39	33	23
Humanities[1]	98	121	129	123	138	173	156	160	176	193
Education	200	213	226	235	205	247	285	289	274	264
Professional/other	35	36	46	47	49	40	44	50	47	58
Grand total, all fields	778	833	884	922	957	1,064	1,205	1,184	1,179	1,119

See explanatory information, if any, and SOURCE at end of table.

Table 3. Doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	U.S. citizens, Puerto Rican									
Science and engineering, total[1]	120	112	131	137	142	171	173	184	183	155
Engineering, total	13	10	10	13	22	23	17	23	20	13
Chemical	3	2	2	4	4	1	3	2	5	2
Civil	1	1	1	1	1	5	1	2	2	2
Electrical	3	5	3	3	4	4	3	11	6	2
Mechanical	1	1	1	1	3	6	5	2	2	1
Other engineering	5	1	3	4	10	7	5	6	5	6
Sciences, total[1]	107	102	121	124	120	148	156	161	163	142
Physical sciences, total	20	17	26	21	12	20	11	22	20	14
Astronomy	1	0	0	1	0	0	1	0	0	0
Chemistry	14	14	19	17	9	13	9	18	19	11
Physics	5	3	7	3	3	7	1	4	1	3
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	3	1	0	2	3	6	5	5	5	3
Mathematics	2	1	1	1	3	4	7	2	2	2
Computer sciences	1	1	4	0	5	6	2	6	4	1
Biological sciences	27	27	28	30	32	36	43	47	33	48
Agricultural sciences	3	10	5	3	4	4	3	1	6	4
Psychology	35	24	43	44	48	56	71	57	74	45
Social sciences[1]	16	21	14	23	13	16	14	21	19	25
Non-S&E, total[1]	109	120	126	132	110	142	135	151	143	146
Health	4	3	6	12	7	10	7	11	9	4
Humanities[1]	22	36	38	30	38	49	37	31	44	41
Education	76	70	68	69	52	72	77	90	75	87
Professional/other	7	11	14	21	13	11	14	19	15	14
Grand total, all fields	229	232	257	269	252	313	308	335	326	301
	U.S. citizens, Mexican American									
Science and engineering, total[1]	110	103	134	139	142	155	213	155	205	169
Engineering, total	10	10	14	14	26	19	28	11	26	17
Chemical	1	1	1	3	4	3	1	0	4	0
Civil	2	0	1	3	0	2	5	3	4	1
Electrical	3	2	4	3	9	5	6	3	4	8
Mechanical	2	0	2	1	4	3	3	1	6	4
Other engineering	2	7	6	4	9	6	13	4	8	4
Sciences, total[1]	100	93	120	125	116	136	185	144	179	152
Physical sciences, total	9	9	20	13	20	14	21	15	22	15
Astronomy	0	0	1	1	1	0	1	0	0	3
Chemistry	6	6	16	8	14	9	15	9	17	6
Physics	3	3	3	4	5	5	5	6	5	6
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	6	1	4	3	5	3	5	5	5	3
Mathematics	3	2	4	5	2	3	6	7	8	6
Computer sciences	2	0	0	3	1	2	3	0	3	2
Biological sciences	21	22	29	25	28	40	49	39	44	47
Agricultural sciences	4	2	5	3	2	2	9	3	5	3
Psychology	36	40	38	47	38	49	51	40	60	48
Social sciences[1]	19	17	20	26	20	23	41	35	32	28
Non-S&E, total[1]	97	127	156	137	140	143	196	184	194	208
Health	5	7	3	8	6	7	15	14	11	7
Humanities[1]	22	34	39	33	39	37	54	49	57	64
Education	58	73	100	91	78	89	116	103	113	115
Professional/other	12	13	14	5	17	10	11	18	13	22
Grand total, all fields	207	230	290	276	282	298	409	339	399	377

See explanatory information, if any, and SOURCE at end of table.

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Table 3. Doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	U.S. citizens, other Hispanic									
Science and engineering, total[1]	203	229	198	212	250	249	297	307	261	257
Engineering, total	34	36	25	34	39	41	55	37	23	43
Chemical	6	7	2	5	7	2	6	3	4	3
Civil	3	6	5	3	1	3	9	6	2	5
Electrical	8	9	9	8	14	14	18	14	9	5
Mechanical	7	2	4	3	4	5	11	5	2	12
Other engineering	10	12	5	15	13	17	11	9	6	16
Sciences, total[1]	169	193	173	178	211	208	242	270	238	214
Physical sciences, total	29	39	29	27	19	24	17	19	30	32
Astronomy	3	1	1	1	0	3	0	1	1	4
Chemistry	14	23	14	13	9	14	10	14	13	22
Physics	12	15	14	13	10	7	7	4	15	6
Other physical sciences	0	0	0	0	0	0	0	0	1	0
Earth, atmospheric, & ocean sciences	4	6	3	2	5	7	5	9	8	5
Mathematics	5	6	7	6	4	10	12	3	3	6
Computer sciences	4	4	1	3	6	7	8	6	4	3
Biological sciences	42	44	54	49	49	55	58	69	77	54
Agricultural sciences	2	2	6	4	3	8	13	6	6	7
Psychology	51	56	47	47	81	56	75	108	69	66
Social sciences[1]	32	36	26	40	44	41	54	50	41	41
Non-S&E, total[1]	139	142	139	165	173	204	191	203	193	184
Health	3	9	11	9	18	12	15	14	13	12
Humanities[1]	54	51	52	60	61	87	65	80	75	88
Education	66	70	58	75	75	86	92	96	86	62
Professional/other	16	12	18	21	19	19	19	13	19	22
Grand total, all fields	342	371	337	377	423	453	488	510	454	441
	U.S. citizens, white									
Science and engineering, total[1]	12,847	13,203	13,349	13,382	13,450	13,292	13,445	13,192	12,909	12,211
Engineering, total	1,749	1,891	1,886	1,958	2,126	2,150	2,037	1,990	1,761	1,645
Chemical	267	282	246	242	261	269	262	279	268	258
Civil	142	147	181	175	184	206	196	219	180	176
Electrical	457	507	503	540	542	529	485	472	396	339
Mechanical	299	303	316	320	369	360	348	322	282	291
Other engineering	584	652	640	681	770	786	746	698	655	581
Sciences, total[1]	11,098	11,312	11,463	11,404	11,324	11,142	11,408	11,202	11,148	10,566
Physical sciences, total	1,917	1,848	1,943	1,848	1,821	1,793	1,834	1,749	1,611	1,556
Astronomy	91	97	94	109	127	129	113	104	111	99
Chemistry	1,192	1,119	1,139	1,066	1,026	1,040	1,095	1,054	952	936
Physics	616	623	697	660	659	610	611	581	531	508
Other physical sciences	18	9	13	13	9	14	15	10	17	13
Earth, atmospheric, & ocean sciences	469	440	486	452	430	475	451	411	416	383
Mathematics	407	445	455	507	440	449	491	473	436	395
Computer sciences	363	378	375	416	342	341	383	336	309	298
Biological sciences	2,998	3,054	3,003	3,020	3,051	3,069	3,139	3,017	3,194	3,124
Agricultural sciences	475	426	471	456	423	397	402	385	396	361
Psychology	2,579	2,747	2,693	2,675	2,702	2,483	2,593	2,668	2,566	2,400
Social sciences[1]	1,890	1,974	2,037	2,030	2,115	2,135	2,115	2,163	2,220	2,049
Non-S&E, total[1]	10,057	10,041	10,446	10,531	10,397	9,889	10,009	9,900	10,036	9,631
Health	714	782	846	806	805	813	906	816	941	887
Humanities[1]	2,926	2,965	3,143	3,367	3,329	3,367	3,460	3,467	3,578	3,456
Education	5,005	4,892	4,986	4,796	4,878	4,414	4,351	4,438	4,319	4,148
Professional/other	1,412	1,402	1,471	1,562	1,385	1,295	1,292	1,179	1,198	1,140
Grand total, all fields	22,904	23,244	23,795	23,893	23,847	23,181	23,454	23,092	22,945	21,842

See explanatory information, if any, and SOURCE at end of table.

Table 3. Doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	U.S. citizens, men									
Science and engineering, total[1]	9,397	9,429	9,463	9,599	9,582	9,900	9,745	9,443	9,078	8,656
Engineering, total	1,826	1,932	1,872	2,012	2,178	2,325	2,192	2,059	1,798	1,730
Chemical	250	265	236	221	235	260	264	268	248	246
Civil	144	138	155	170	175	204	196	207	178	163
Electrical	542	573	570	604	625	679	572	577	481	423
Mechanical	329	314	327	355	391	410	393	346	294	351
Other engineering	561	642	584	662	752	772	767	661	617	547
Sciences, total[1]	7,571	7,497	7,591	7,587	7,404	7,575	7,553	7,384	7,280	6,926
Physical sciences, total	1,710	1,647	1,745	1,618	1,610	1,659	1,629	1,564	1,408	1,393
Astronomy	87	86	83	99	106	126	109	87	95	92
Chemistry	971	920	946	829	836	883	895	894	744	761
Physics	636	633	703	677	661	639	616	578	556	529
Other physical sciences	16	8	13	13	7	11	9	5	13	11
Earth, atmospheric, & ocean sciences	368	351	382	366	348	391	352	338	319	280
Mathematics	357	372	382	422	385	387	405	374	373	332
Computer sciences	353	343	349	368	345	348	373	330	314	281
Biological sciences	1,999	2,000	1,930	2,007	1,962	2,033	2,075	2,011	2,097	2,102
Agricultural sciences	377	333	387	380	328	333	310	298	300	251
Psychology	1,176	1,202	1,143	1,093	1,023	995	1,031	1,043	1,022	955
Social sciences[1]	1,231	1,249	1,273	1,333	1,403	1,429	1,378	1,426	1,447	1,332
Non-S&E, total[1]	5,122	5,088	5,274	5,369	5,139	5,183	5,144	5,070	5,071	4,937
Health	203	226	283	263	248	255	273	285	309	306
Humanities[1]	1,728	1,699	1,837	1,938	1,855	2,070	2,073	2,065	2,114	2,045
Education	2,263	2,282	2,202	2,149	2,154	1,986	1,984	1,945	1,880	1,833
Professional/other	928	881	952	1,019	882	872	814	775	768	753
Grand total, all fields	14,519	14,517	14,737	14,968	14,721	15,083	14,889	14,513	14,149	13,593
	U.S. citizens, men, American Indian/Alaskan Native									
Science and engineering, total[1]	42	25	40	42	61	45	55	59	43	40
Engineering, total	8	2	4	9	12	14	9	10	4	5
Chemical	1	1	1	2	1	3	0	1	0	1
Civil	0	0	0	0	1	1	0	1	0	0
Electrical	3	0	1	1	1	5	3	1	0	1
Mechanical	1	0	0	2	3	5	2	2	2	1
Other engineering	3	1	2	4	6	0	4	5	2	2
Sciences, total[1]	34	23	36	33	49	31	46	49	39	35
Physical sciences, total	10	3	5	5	5	10	9	6	7	10
Astronomy	0	1	0	0	0	1	1	0	0	1
Chemistry	4	1	4	3	3	6	6	3	6	9
Physics	6	1	1	2	2	2	2	3	1	0
Other physical sciences	0	0	0	0	0	1	0	0	0	0
Earth, atmospheric, & ocean sciences	1	4	1	0	2	1	2	3	4	0
Mathematics	1	1	2	1	1	1	1	1	1	0
Computer sciences	2	0	0	0	2	0	4	0	1	0
Biological sciences	8	5	11	10	11	4	6	10	10	8
Agricultural sciences	0	1	1	2	2	5	7	1	3	0
Psychology	6	6	5	6	9	6	13	12	3	5
Social sciences[1]	6	3	11	9	17	4	4	16	10	12
Non-S&E, total[1]	40	35	31	38	41	34	50	37	33	27
Health	3	0	1	2	1	2	1	0	1	2
Humanities[1]	12	7	12	10	10	8	14	11	11	9
Education	20	21	10	17	22	18	26	19	17	12
Professional/other	5	7	8	9	8	6	9	7	4	4
Grand total, all fields	82	60	71	80	102	79	105	96	76	67

See explanatory information, if any, and SOURCE at end of table.

Table 3. Doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	U.S. citizens, men, Asian/Pacific Islander									
Science and engineering, total[1]	448	470	487	586	505	635	523	631	598	619
Engineering, total	180	192	169	202	220	244	192	222	184	208
Chemical	18	22	20	16	17	14	27	23	29	24
Civil	11	10	7	13	11	10	13	19	12	10
Electrical	83	78	85	80	95	112	68	80	65	69
Mechanical	33	33	23	33	36	42	29	37	30	44
Other engineering	35	49	34	60	61	66	55	63	48	59
Sciences, total[1]	268	278	318	364	285	391	331	409	414	413
Physical sciences, total	72	75	87	98	72	107	84	83	64	83
Astronomy	1	1	4	3	3	6	5	2	6	6
Chemistry	36	38	43	51	32	52	49	53	22	37
Physics	35	36	39	44	37	49	30	28	36	40
Other physical sciences	0	0	1	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	11	4	6	7	5	13	4	11	5	11
Mathematics	17	18	14	18	15	27	12	23	34	22
Computer sciences	34	23	28	34	28	31	29	34	33	24
Biological sciences	71	99	114	125	108	132	131	166	172	196
Agricultural sciences	8	5	12	5	6	11	5	10	10	2
Psychology	16	20	20	30	20	21	23	31	39	24
Social sciences[1]	39	34	37	47	31	49	43	51	57	51
Non-S&E, total[1]	81	74	96	96	98	109	119	135	141	149
Health	9	7	15	7	16	15	14	16	18	22
Humanities[1]	22	17	29	28	26	41	37	41	44	53
Education	22	34	27	27	29	25	37	41	41	32
Professional/other	28	16	25	34	27	28	31	37	38	42
Grand total, all fields	529	544	583	682	603	744	642	766	739	768
	U.S. citizens, men, black									
Science and engineering, total[1]	162	180	191	216	252	262	240	294	270	269
Engineering, total	26	30	31	40	40	61	54	62	50	57
Chemical	7	1	2	1	5	6	2	5	3	6
Civil	0	1	6	4	5	9	6	3	4	7
Electrical	10	11	11	16	12	24	18	21	17	19
Mechanical	3	2	3	7	6	9	13	9	12	16
Other engineering	6	15	9	12	12	13	15	24	14	9
Sciences, total[1]	136	150	160	176	212	201	186	232	220	212
Physical sciences, total	16	20	21	19	34	36	25	30	34	26
Astronomy	0	2	0	1	0	1	1	0	0	1
Chemistry	9	11	15	11	24	23	17	27	20	18
Physics	6	7	5	7	10	12	7	3	14	7
Other physical sciences	1	0	1	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	4	2	2	2	1	3	5	6	3	3
Mathematics	4	4	6	3	6	4	5	4	7	10
Computer sciences	3	2	5	5	9	3	4	8	8	3
Biological sciences	25	34	23	51	46	44	34	47	40	42
Agricultural sciences	5	3	7	4	14	9	7	10	3	3
Psychology	25	43	40	37	38	37	38	36	42	48
Social sciences[1]	54	42	56	55	64	65	68	91	83	77
Non-S&E, total[1]	232	261	220	271	280	267	286	314	289	318
Health	11	15	11	14	10	12	11	8	11	9
Humanities[1]	41	44	42	43	47	55	62	61	60	61
Education	148	169	132	176	184	155	176	184	175	196
Professional/other	32	33	35	38	39	45	37	61	43	52
Grand total, all fields	394	441	411	487	532	529	526	608	559	587

See explanatory information, if any, and SOURCE at end of table.

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Table 3. Doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	U.S. citizens, men, Hispanic, total									
Science and engineering, total[1]	263	256	262	284	297	339	381	316	338	286
Engineering, total	46	45	44	51	73	62	87	49	59	55
Chemical	8	7	5	10	10	4	10	2	10	1
Civil	5	5	5	6	2	9	12	5	7	6
Electrical	12	13	16	13	23	17	25	24	19	13
Mechanical	8	3	6	5	11	11	18	7	9	17
Other engineering	13	17	12	17	27	21	22	11	14	18
Sciences, total[1]	217	211	218	233	224	277	294	267	279	231
Physical sciences, total	43	49	58	42	42	46	39	35	50	41
Astronomy	3	1	2	1	1	2	2	1	1	6
Chemistry	23	29	36	24	26	26	25	21	29	24
Physics	17	19	20	17	15	18	12	13	19	11
Other physical sciences	0	0	0	0	0	0	0	0	1	0
Earth, atmospheric, & ocean sciences	9	6	5	4	9	11	10	15	15	5
Mathematics	7	8	9	9	9	12	18	9	7	9
Computer sciences	6	4	5	2	7	13	12	9	9	3
Biological sciences	55	47	61	68	58	74	79	86	73	77
Agricultural sciences	7	9	9	9	6	11	16	6	10	8
Psychology	52	42	42	44	51	60	54	53	59	41
Social sciences[1]	38	46	29	55	42	50	66	54	56	47
Non-S&E, total[1]	147	167	176	179	183	205	230	194	209	211
Health	4	4	3	15	11	7	12	11	10	5
Humanities[1]	51	55	67	60	65	90	83	75	82	86
Education	74	88	76	82	83	85	110	89	97	87
Professional/other	18	20	30	22	24	23	25	19	20	33
Grand total, all fields	410	423	438	463	480	544	611	510	547	497
	U.S. citizens, men, Puerto Rican									
Science and engineering, total[1]	71	70	72	74	74	98	69	88	78	68
Engineering, total	10	8	10	11	17	19	16	15	16	9
Chemical	3	2	2	3	2	1	3	1	3	0
Civil	1	0	1	1	1	5	1	1	2	2
Electrical	2	4	3	3	4	3	3	9	6	2
Mechanical	0	1	1	1	3	6	5	2	2	1
Other engineering	4	1	3	3	7	4	4	2	3	4
Sciences, total[1]	61	62	62	63	57	79	53	73	62	59
Physical sciences, total	14	12	19	12	8	18	6	13	10	10
Astronomy	1	0	0	0	0	0	1	0	0	0
Chemistry	9	9	13	9	6	11	4	9	9	8
Physics	4	3	6	3	2	7	1	4	1	2
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	3	1	0	1	3	4	2	4	5	1
Mathematics	1	1	1	0	3	3	4	2	1	2
Computer sciences	1	0	4	0	4	6	1	5	4	1
Biological sciences	16	16	14	21	14	20	20	24	11	18
Agricultural sciences	3	7	2	3	3	3	2	0	3	2
Psychology	16	13	13	13	15	20	12	16	15	9
Social sciences[1]	7	12	9	13	7	5	6	9	13	16
Non-S&E, total[1]	39	51	51	46	40	55	59	53	51	53
Health	3	0	2	7	2	3	3	5	3	2
Humanities[1]	10	18	16	14	16	26	20	14	19	18
Education	23	25	23	19	17	21	28	24	24	25
Professional/other	3	8	10	6	5	5	8	10	5	8
Grand total, all fields	110	121	123	120	114	153	128	141	129	121

See explanatory information, if any, and SOURCE at end of table.

Table 3. Doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	U.S. citizens, men, Mexican American									
Science and engineering, total[1]	72	61	80	80	89	88	130	83	120	96
Engineering, total	10	9	12	13	23	12	25	7	23	13
Chemical	1	1	1	2	3	2	1	0	3	0
Civil	2	0	1	3	0	1	4	1	4	0
Electrical	3	2	4	3	8	2	6	2	4	6
Mechanical	2	0	2	1	4	3	3	1	6	4
Other engineering	2	6	4	4	8	4	11	3	6	3
Sciences, total[1]	62	52	68	67	66	76	105	76	97	83
Physical sciences, total	7	7	17	9	17	12	18	10	19	13
Astronomy	0	0	1	0	1	0	1	0	0	3
Chemistry	4	5	14	6	12	7	12	5	14	4
Physics	3	2	2	3	4	5	5	5	5	6
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	4	1	4	2	3	2	4	4	4	2
Mathematics	3	2	3	3	2	2	3	5	4	3
Computer sciences	2	0	0	1	1	2	3	0	2	2
Biological sciences	10	12	16	16	16	20	29	23	25	30
Agricultural sciences	3	1	4	2	1	2	6	3	3	2
Psychology	19	16	17	14	18	20	18	14	22	17
Social sciences[1]	14	13	7	20	8	16	24	17	18	14
Non-S&E, total[1]	45	56	70	68	70	68	81	70	76	93
Health	0	2	0	3	2	0	1	3	2	2
Humanities[1]	13	18	22	21	21	21	30	27	22	28
Education	26	29	37	40	37	41	45	35	45	50
Professional/other	6	7	11	4	10	6	5	5	7	13
Grand total, all fields	117	117	150	148	159	156	211	153	196	189
	U.S. citizens, men, other Hispanic									
Science and engineering, total[1]	120	125	110	130	134	153	182	145	140	122
Engineering, total	26	28	22	27	33	31	46	27	20	33
Chemical	4	4	2	5	5	1	6	1	4	1
Civil	2	5	3	2	1	3	7	3	1	4
Electrical	7	7	9	7	11	12	16	13	9	5
Mechanical	6	2	3	3	4	2	10	4	1	12
Other engineering	7	10	5	10	12	13	7	6	5	11
Sciences, total[1]	94	97	86	103	101	122	136	118	120	89
Physical sciences, total	22	30	22	21	17	16	15	12	21	18
Astronomy	2	1	1	1	0	3	0	1	1	3
Chemistry	10	15	9	9	8	8	9	7	6	12
Physics	10	14	12	11	9	6	6	4	13	3
Other physical sciences	0	0	0	0	0	0	0	0	1	0
Earth, atmospheric, & ocean sciences	2	4	1	1	3	5	4	7	6	2
Mathematics	3	5	5	6	4	7	11	2	2	4
Computer sciences	3	4	1	1	2	5	8	4	3	0
Biological sciences	29	19	31	31	28	34	30	39	37	29
Agricultural sciences	1	1	3	4	2	6	8	3	4	4
Psychology	17	13	12	17	18	20	24	23	22	15
Social sciences[1]	17	21	13	22	27	29	36	28	25	17
Non-S&E, total[1]	63	60	55	65	73	82	90	71	82	65
Health	1	2	1	5	7	4	8	3	5	1
Humanities[1]	28	19	29	25	28	43	33	34	41	40
Education	25	34	16	23	29	23	37	30	28	12
Professional/other	9	5	9	12	9	12	12	4	8	12
Grand total, all fields	183	185	165	195	207	235	272	216	222	187

See explanatory information, if any, and SOURCE at end of table.

Table 3. Doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	U.S. citizens, men, white									
Science and engineering, total[1]	8,291	8,365	8,353	8,323	8,289	8,210	8,168	7,918	7,570	7,166
Engineering, total	1,522	1,644	1,595	1,661	1,801	1,838	1,758	1,657	1,443	1,348
Chemical	211	233	201	186	198	221	212	233	202	204
Civil	125	122	137	145	155	168	155	175	148	128
Electrical	419	462	453	480	483	483	443	433	345	308
Mechanical	280	272	291	296	332	328	316	278	231	265
Other engineering	487	555	513	554	633	638	632	538	517	443
Sciences, total[1]	6,769	6,721	6,758	6,662	6,488	6,372	6,410	6,261	6,127	5,818
Physical sciences, total	1,535	1,473	1,556	1,422	1,416	1,402	1,403	1,375	1,216	1,185
Astronomy	81	78	75	91	98	107	91	83	85	74
Chemistry	885	828	843	733	736	748	766	773	644	652
Physics	555	560	627	587	575	537	538	514	475	448
Other physical sciences	14	7	11	11	7	10	8	5	12	11
Earth, atmospheric, & ocean sciences	339	332	366	346	326	349	317	294	280	249
Mathematics	319	334	344	388	347	325	353	326	318	285
Computer sciences	299	306	305	318	286	278	306	269	252	241
Biological sciences	1,802	1,780	1,700	1,721	1,708	1,717	1,756	1,663	1,734	1,716
Agricultural sciences	349	314	353	357	293	282	267	284	266	232
Psychology	1,059	1,079	1,021	966	896	824	865	900	862	810
Social sciences[1]	1,067	1,103	1,113	1,144	1,216	1,195	1,143	1,170	1,199	1,100
Non-S&E, total[1]	4,547	4,494	4,691	4,715	4,454	4,321	4,256	4,281	4,275	4,091
Health	171	198	250	221	207	214	223	245	262	262
Humanities[1]	1,573	1,544	1,658	1,758	1,675	1,776	1,785	1,826	1,848	1,757
Education	1,976	1,956	1,935	1,830	1,803	1,801	1,568	1,578	1,515	1,471
Professional/other	827	796	848	906	769	730	679	632	650	601
Grand total, all fields	12,838	12,859	13,044	13,038	12,743	12,531	12,424	12,199	11,845	11,257
	U.S. citizens, women									
Science and engineering, total[1]	5,162	5,503	5,703	5,889	6,059	6,217	6,493	6,470	6,614	6,343
Engineering, total	283	296	343	374	418	414	375	427	419	409
Chemical	68	59	57	70	83	61	64	65	91	81
Civil	20	30	48	36	37	45	50	54	42	58
Electrical	55	57	64	79	83	74	66	62	69	44
Mechanical	23	33	32	28	45	46	41	52	47	34
Other engineering	117	117	142	161	170	188	154	194	170	191
Sciences, total[1]	4,879	5,207	5,360	5,515	5,641	5,803	6,118	6,043	6,195	5,934
Physical sciences, total	447	448	453	519	467	472	512	471	482	467
Astronomy	13	20	20	21	31	25	23	24	32	27
Chemistry	357	352	345	409	333	351	393	362	375	365
Physics	73	71	86	87	101	92	89	79	69	73
Other physical sciences	4	3	2	2	2	4	7	6	6	2
Earth, atmospheric, & ocean sciences	138	112	125	112	114	146	148	136	155	148
Mathematics	97	124	122	132	105	143	171	165	144	136
Computer sciences	69	82	77	116	77	82	103	90	73	84
Biological sciences	1,329	1,449	1,492	1,487	1,585	1,637	1,681	1,649	1,804	1,774
Agricultural sciences	134	124	132	112	145	134	154	145	147	150
Psychology	1,724	1,869	1,909	1,991	2,108	2,046	2,150	2,180	2,132	1,983
Social sciences[1]	941	1,001	1,050	1,046	1,040	1,143	1,199	1,207	1,258	1,192
Non-S&E, total[1]	6,329	6,428	6,710	6,886	6,997	6,862	7,077	7,001	7,192	6,971
Health	606	653	678	675	685	704	799	687	811	764
Humanities[1]	1,483	1,574	1,649	1,810	1,873	1,877	1,950	1,943	2,041	2,051
Education	3,589	3,509	3,665	3,628	3,724	3,601	3,591	3,689	3,666	3,482
Professional/other	651	692	718	773	715	680	737	682	674	674
Grand total, all fields	11,491	11,931	12,413	12,775	13,056	13,079	13,570	13,471	13,806	13,314

See explanatory information, if any, and SOURCE at end of table.

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Table 3. Doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	U.S. citizens, women, American Indian/Alaskan Native									
Science and engineering, total[1]	27	18	24	25	34	34	42	55	45	32
Engineering, total	3	0	2	0	2	3	4	2	4	2
Chemical	0	0	0	0	0	1	3	1	1	0
Civil	1	0	0	0	1	1	0	1	1	0
Electrical	1	0	0	0	1	0	0	0	0	0
Mechanical	0	0	0	0	0	1	0	0	1	0
Other engineering	1	0	2	0	0	0	1	0	1	2
Sciences, total[1]	24	18	22	25	32	31	38	53	41	30
Physical sciences, total	2	2	1	2	1	0	1	3	2	2
Astronomy	0	0	0	0	0	0	0	1	1	0
Chemistry	2	1	0	2	1	0	1	2	1	2
Physics	0	1	1	0	0	0	0	0	0	0
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	0	0	0	0	0	1	1	3	1	0
Mathematics	1	0	0	1	0	0	2	0	1	1
Computer sciences	0	1	1	0	2	1	0	1	0	0
Biological sciences	5	2	5	5	9	3	6	10	7	7
Agricultural sciences	0	0	0	0	4	0	2	0	1	0
Psychology	9	9	7	8	9	12	18	23	19	12
Social sciences[1]	7	4	8	9	7	14	8	13	10	8
Non-S&E, total[1]	40	42	48	42	50	54	43	63	48	50
Health	2	6	5	7	3	4	3	6	3	4
Humanities[1]	6	3	8	8	8	11	7	10	9	12
Education	30	30	27	24	38	33	24	39	34	30
Professional/other	2	3	8	3	1	6	9	8	2	4
Grand total, all fields	67	60	72	67	84	88	85	118	93	82
	U.S. citizens, women, Asian/Pacific Islander									
Science and engineering, total[1]	195	231	241	318	316	366	346	361	392	439
Engineering, total	33	24	31	52	51	46	51	41	56	55
Chemical	7	4	7	11	10	3	9	9	14	13
Civil	1	0	0	2	6	3	3	1	6	5
Electrical	12	7	11	12	14	16	18	12	14	10
Mechanical	2	1	5	4	4	8	6	5	9	5
Other engineering	11	12	8	23	17	16	15	14	13	22
Sciences, total[1]	162	207	210	266	265	320	295	320	336	384
Physical sciences, total	35	41	33	48	33	44	33	41	38	42
Astronomy	1	1	0	1	2	0	1	0	2	0
Chemistry	28	36	26	39	23	30	22	35	27	35
Physics	6	4	7	8	8	14	10	6	8	7
Other physical sciences	0	0	0	0	0	0	0	0	1	0
Earth, atmospheric, & ocean sciences	3	2	1	1	3	4	3	4	4	4
Mathematics	3	10	4	6	8	6	13	7	10	8
Computer sciences	3	4	4	8	9	11	10	9	8	10
Biological sciences	62	87	79	100	125	123	118	123	145	169
Agricultural sciences	5	4	2	5	6	5	1	11	3	5
Psychology	28	32	60	53	55	80	69	79	82	82
Social sciences[1]	23	27	27	45	26	47	48	46	46	64
Non-S&E, total[1]	115	101	113	149	147	187	167	181	231	221
Health	23	10	20	15	21	27	18	29	37	49
Humanities[1]	24	34	28	56	52	63	64	71	80	70
Education	58	49	53	57	58	75	62	59	82	77
Professional/other	10	8	12	21	16	22	23	22	32	25
Grand total, all fields	310	332	354	467	463	553	513	542	623	660

See explanatory information, if any, and SOURCE at end of table.

Table 3. Doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	U.S. citizens, women, black									
Science and engineering, total[1]	158	195	199	245	236	268	336	343	377	356
Engineering, total	6	11	13	13	19	22	21	23	24	25
Chemical	1	3	4	1	5	6	1	4	5	10
Civil	0	2	2	3	1	0	2	2	1	0
Electrical	2	2	3	4	5	3	4	5	2	1
Mechanical	0	0	1	0	3	1	0	1	5	1
Other engineering	3	4	3	5	5	12	14	11	11	13
Sciences, total[1]	152	184	186	232	217	246	315	320	353	331
Physical sciences, total	5	9	12	17	12	10	26	24	18	19
Astronomy	1	0	0	0	0	1	0	2	1	0
Chemistry	4	8	8	16	10	8	23	19	16	18
Physics	0	0	4	1	2	1	3	3	1	1
Other physical sciences	0	1	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	1	0	1	0	2	1	2	5	4	2
Mathematics	0	1	3	1	2	2	7	6	7	7
Computer sciences	1	3	2	4	3	1	8	8	5	10
Biological sciences	22	30	43	39	36	57	67	62	70	79
Agricultural sciences	0	2	3	5	0	5	1	6	5	5
Psychology	74	73	72	108	106	104	114	132	143	121
Social sciences[1]	49	66	50	60	56	66	90	77	101	88
Non-S&E, total[1]	414	473	490	561	538	538	625	676	694	661
Health	24	37	30	41	32	39	49	43	56	51
Humanities[1]	42	38	52	54	58	70	69	89	84	96
Education	319	346	354	403	396	372	452	475	500	450
Professional/other	29	52	54	63	52	57	55	69	54	64
Grand total, all fields	572	668	689	806	774	806	961	1,019	1,071	1,017
	U.S. citizens, women, Hispanic, total									
Science and engineering, total[1]	170	188	201	204	237	236	302	330	311	295
Engineering, total	11	11	5	10	14	21	13	22	10	18
Chemical	2	3	0	2	5	2	0	3	3	4
Civil	1	2	2	1	0	1	3	6	1	2
Electrical	2	3	0	1	4	6	2	4	0	2
Mechanical	2	0	1	0	0	3	1	1	1	0
Other engineering	4	3	2	6	5	9	7	8	5	10
Sciences, total[1]	159	177	196	194	223	215	289	308	301	277
Physical sciences, total	15	16	17	19	9	12	10	21	22	20
Astronomy	1	0	0	2	0	1	0	0	0	1
Chemistry	11	14	13	14	6	10	9	20	20	15
Physics	3	2	4	3	3	1	1	1	2	4
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	4	2	2	3	4	5	5	4	3	6
Mathematics	3	1	3	3	0	5	7	3	6	5
Computer sciences	1	1	0	4	5	2	1	3	2	3
Biological sciences	35	46	50	36	51	57	71	69	81	72
Agricultural sciences	2	5	7	1	3	3	9	4	7	6
Psychology	70	78	86	94	116	101	143	152	144	118
Social sciences[1]	29	28	31	34	35	30	43	52	36	47
Non-S&E, total[1]	198	222	245	255	240	284	292	344	321	327
Health	8	15	17	14	20	22	25	28	23	18
Humanities[1]	47	66	62	63	73	83	73	85	94	107
Education	126	125	150	153	122	162	175	200	177	177
Professional/other	17	16	16	25	25	17	19	31	27	25
Grand total, all fields	368	410	446	459	477	520	594	674	632	622

See explanatory information, if any, and SOURCE at end of table.

Table 3. Doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	U.S. citizens, women, Puerto Rican									
Science and engineering, total[1]	49	42	59	63	68	73	104	96	105	87
Engineering, total	3	2	0	2	5	4	1	8	4	4
Chemical	0	0	0	1	2	0	0	1	2	2
Civil	0	1	0	0	0	0	0	1	0	0
Electrical	1	1	0	0	0	1	0	2	0	0
Mechanical	1	0	0	0	0	0	0	0	0	0
Other engineering	1	0	0	1	3	3	1	4	2	2
Sciences, total[1]	46	40	59	61	63	69	103	88	101	83
Physical sciences, total	6	5	7	9	4	2	5	9	10	4
Astronomy	0	0	0	1	0	0	0	0	0	0
Chemistry	5	5	6	8	3	2	5	9	10	3
Physics	1	0	1	0	1	0	0	0	0	1
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	0	0	0	1	0	2	3	1	0	2
Mathematics	1	0	0	1	0	1	3	0	1	0
Computer sciences	0	1	0	0	1	0	1	1	0	0
Biological sciences	11	11	14	9	18	16	23	23	22	30
Agricultural sciences	0	3	3	0	1	1	1	1	3	2
Psychology	19	11	30	31	33	36	59	41	59	36
Social sciences[1]	9	9	5	10	6	11	8	12	6	9
Non-S&E, total[1]	70	69	75	86	70	87	76	98	92	93
Health	1	3	4	5	5	7	4	6	6	2
Humanities[1]	12	18	22	16	22	23	17	17	25	23
Education	53	45	45	50	35	51	49	66	51	62
Professional/other	4	3	4	15	8	6	6	9	10	6
Grand total, all fields	119	111	134	149	138	160	180	194	197	180
	U.S. citizens, women, Mexican American									
Science and engineering, total[1]	38	42	54	59	53	67	83	72	85	73
Engineering, total	0	1	2	1	3	7	3	4	3	4
Chemical	0	0	0	1	1	1	0	0	1	0
Civil	0	0	0	0	0	1	1	2	0	1
Electrical	0	0	0	0	1	3	0	1	0	2
Mechanical	0	0	0	0	0	0	0	0	0	0
Other engineering	0	1	2	0	1	2	2	1	2	1
Sciences, total[1]	38	41	52	58	50	60	80	68	82	69
Physical sciences, total	2	2	3	4	3	2	3	5	3	2
Astronomy	0	0	0	1	0	0	0	0	0	0
Chemistry	2	1	2	2	2	2	3	4	3	2
Physics	0	1	1	1	1	0	0	1	0	0
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	2	0	0	1	2	1	1	1	1	1
Mathematics	0	0	1	2	0	1	3	2	4	3
Computer sciences	0	0	0	2	0	0	0	0	1	0
Biological sciences	11	10	13	9	12	20	20	16	19	17
Agricultural sciences	1	1	1	1	1	0	3	0	2	1
Psychology	17	24	21	33	20	29	33	26	38	31
Social sciences[1]	5	4	13	6	12	7	17	18	14	14
Non-S&E, total[1]	52	71	86	69	70	75	115	114	118	115
Health	5	5	3	5	4	7	14	11	9	5
Humanities[1]	9	16	17	12	18	16	24	22	35	36
Education	32	44	63	51	41	48	71	68	68	65
Professional/other	6	6	3	1	7	4	6	13	6	9
Grand total, all fields	90	113	140	128	123	142	198	186	203	188

See explanatory information, if any, and SOURCE at end of table.

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Table 3. Doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	U.S. citizens, women, other Hispanic									
Science and engineering, total[1]	83	104	88	82	116	96	115	162	121	135
Engineering, total	8	8	3	7	6	10	9	10	3	10
Chemical	2	3	0	0	2	1	0	2	0	2
Civil	1	1	2	1	0	0	2	3	1	1
Electrical	1	2	0	1	3	2	2	1	0	0
Mechanical	1	0	1	0	0	3	1	1	1	0
Other engineering	3	2	0	5	1	4	4	3	1	7
Sciences, total[1]	75	96	85	75	110	86	106	152	118	125
Physical sciences, total	7	9	7	8	2	8	2	7	9	14
Astronomy	1	0	0	0	0	1	0	0	0	1
Chemistry	4	8	5	4	1	6	1	7	7	10
Physics	2	1	2	2	1	1	1	0	2	3
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	2	2	2	1	2	2	1	2	2	3
Mathematics	2	1	2	0	0	3	1	1	1	2
Computer sciences	1	0	0	2	4	2	0	2	1	3
Biological sciences	13	25	23	18	21	21	28	30	40	25
Agricultural sciences	1	1	3	0	1	2	5	3	2	3
Psychology	34	43	35	30	63	36	51	85	47	51
Social sciences[1]	15	15	13	18	17	12	18	22	16	24
Non-S&E, total[1]	76	82	84	100	100	122	101	132	111	119
Health	2	7	10	4	11	8	7	11	8	11
Humanities[1]	26	32	23	35	33	44	32	46	34	48
Education	41	36	42	52	46	63	55	66	58	50
Professional/other	7	7	9	9	10	7	7	9	11	10
Grand total, all fields	159	186	172	182	216	218	216	294	232	254
	U.S. citizens, women, white									
Science and engineering, total[1]	4,556	4,838	4,996	5,039	5,161	5,082	5,277	5,274	5,339	5,045
Engineering, total	227	247	291	297	325	312	279	333	318	297
Chemical	56	49	45	56	63	48	50	46	66	54
Civil	17	25	44	30	29	38	41	44	32	48
Electrical	38	45	50	60	59	46	42	39	51	31
Mechanical	19	31	25	24	37	32	32	44	31	26
Other engineering	97	97	127	127	137	148	114	160	138	138
Sciences, total[1]	4,329	4,591	4,705	4,742	4,836	4,770	4,998	4,941	5,021	4,748
Physical sciences, total	382	375	387	426	405	391	431	374	395	371
Astronomy	10	19	19	18	29	22	22	21	26	25
Chemistry	307	291	296	333	290	292	329	281	308	284
Physics	61	63	70	73	84	73	73	67	56	60
Other physical sciences	4	2	2	2	2	4	7	5	5	2
Earth, atmospheric, & ocean sciences	130	108	120	106	104	126	134	117	136	134
Mathematics	88	111	111	119	93	124	138	147	118	110
Computer sciences	64	72	70	98	56	63	77	67	57	57
Biological sciences	1,196	1,274	1,303	1,299	1,343	1,352	1,383	1,354	1,460	1,408
Agricultural sciences	126	112	118	99	130	115	135	121	130	129
Psychology	1,520	1,668	1,672	1,709	1,806	1,659	1,728	1,768	1,704	1,590
Social sciences[1]	823	871	924	886	899	940	972	993	1,021	949
Non-S&E, total[1]	5,510	5,547	5,755	5,816	5,943	5,568	5,753	5,619	5,761	5,540
Health	543	584	596	585	598	599	683	571	679	625
Humanities[1]	1,353	1,421	1,485	1,609	1,654	1,591	1,675	1,641	1,730	1,699
Education	3,029	2,936	3,051	2,966	3,075	2,813	2,782	2,860	2,804	2,677
Professional/other	585	606	623	656	616	565	613	547	548	539
Grand total, all fields	10,066	10,385	10,751	10,855	11,104	10,650	11,030	10,893	11,100	10,585

See explanatory information, if any, and SOURCE at end of table.

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Table 3. Doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	Non-U.S. citizens with permanent visas									
Science and engineering, total[1]	1,383	1,641	3,021	3,509	3,009	2,281	2,019	1,652	1,414	1,263
Engineering, total	411	469	838	956	793	593	479	402	352	296
Chemical	60	53	87	90	73	88	46	38	43	28
Civil	51	59	89	103	93	78	51	51	40	47
Electrical	122	165	265	288	221	187	166	126	117	94
Mechanical	74	87	179	180	152	82	82	65	56	42
Other engineering	104	105	218	295	254	158	134	122	96	85
Sciences, total[1]	972	1,172	2,183	2,553	2,216	1,688	1,540	1,250	1,062	967
Physical sciences, total	200	237	591	704	493	366	314	242	202	183
Astronomy	6	5	9	21	12	7	15	6	12	4
Chemistry	113	128	325	386	293	205	179	150	122	103
Physics	81	102	255	295	187	152	118	85	67	74
Other physical sciences	0	2	2	2	1	2	2	1	1	2
Earth, atmospheric, & ocean sciences	35	41	106	116	96	70	62	51	34	36
Mathematics	53	94	153	217	158	99	93	66	56	54
Computer sciences	67	84	117	132	92	90	85	72	70	55
Biological sciences	240	303	666	835	818	586	552	464	364	340
Agricultural sciences	62	49	97	106	103	83	79	51	55	28
Psychology	86	90	84	101	104	89	93	70	76	75
Social sciences[1]	229	274	369	342	352	305	262	234	205	196
Non-S&E, total[1]	597	618	726	809	756	650	683	654	543	559
Health	46	60	89	106	83	69	82	77	75	89
Humanities[1]	229	238	280	308	319	289	304	283	233	265
Education	165	177	199	218	196	165	172	178	126	116
Professional/other	157	143	158	177	158	127	125	116	109	109
Grand total, all fields	1,980	2,259	3,747	4,318	3,765	2,931	2,702	2,306	1,957	1,822
	Non-U.S. citizens with permanent visas, men									
Science and engineering, total[1]	968	1,120	2,230	2,485	2,101	1,508	1,342	1,051	905	739
Engineering, total	366	417	733	810	685	495	402	337	281	231
Chemical	46	48	66	72	58	72	34	28	34	17
Civil	48	57	82	87	83	65	43	44	34	40
Electrical	110	142	241	247	199	155	141	107	93	71
Mechanical	72	84	157	159	117	73	73	57	47	38
Other engineering	90	86	187	245	209	130	111	101	73	65
Sciences, total[1]	602	703	1,497	1,675	1,416	1,013	940	714	624	508
Physical sciences, total	133	162	419	515	350	251	222	160	138	124
Astronomy	4	2	8	17	8	6	11	4	9	2
Chemistry	69	79	206	258	187	125	109	86	75	60
Physics	60	79	204	239	154	120	100	69	53	61
Other physical sciences	0	2	1	1	1	0	2	1	1	1
Earth, atmospheric, & ocean sciences	26	33	87	84	80	52	39	35	22	22
Mathematics	33	54	124	166	118	65	66	39	37	37
Computer sciences	53	57	100	105	78	72	65	57	57	41
Biological sciences	131	168	415	463	462	303	312	249	184	156
Agricultural sciences	46	39	69	83	73	62	50	35	36	14
Psychology	30	21	26	35	26	27	32	21	31	23
Social sciences[1]	150	169	257	224	229	181	154	118	119	91
Non-S&E, total[1]	325	351	407	424	382	327	339	327	238	256
Health	23	34	45	62	45	33	37	44	32	28
Humanities[1]	104	116	141	138	146	132	148	144	100	103
Education	84	96	107	94	89	75	72	67	43	53
Professional/other	114	105	114	130	102	87	82	72	63	72
Grand total, all fields	1,293	1,471	2,637	2,909	2,483	1,835	1,681	1,378	1,143	995

See explanatory information, if any, and SOURCE at end of table.

Table 3. Doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	Non-U.S. citizens with permanent visas, women									
Science and engineering, total[1]	415	521	791	1,024	908	773	677	601	509	524
Engineering, total	45	52	105	146	108	98	77	65	71	65
Chemical	14	5	21	18	15	16	12	10	9	11
Civil	3	2	7	16	10	13	8	7	6	7
Electrical	12	23	24	41	23	32	25	19	24	23
Mechanical	2	3	22	21	15	9	9	8	9	4
Other engineering	14	19	31	50	45	28	23	21	23	20
Sciences, total[1]	370	469	686	878	800	675	600	536	438	459
Physical sciences, total	67	75	172	189	143	115	92	82	64	59
Astronomy	2	3	1	4	4	1	4	2	3	2
Chemistry	44	49	119	128	106	80	70	64	47	43
Physics	21	23	51	56	33	32	18	16	14	13
Other physical sciences	0	0	1	1	0	2	0	0	0	1
Earth, atmospheric, & ocean sciences	9	8	19	32	16	18	23	16	12	14
Mathematics	20	40	29	51	40	34	27	27	19	17
Computer sciences	14	27	17	27	14	18	20	15	13	14
Biological sciences	109	135	251	372	356	283	240	215	180	184
Agricultural sciences	16	10	28	23	30	21	29	16	19	14
Psychology	56	69	58	66	78	62	61	49	45	52
Social sciences[1]	79	105	112	118	123	124	108	116	86	105
Non-S&E, total[1]	272	267	319	385	374	323	344	327	305	303
Health	23	26	44	44	38	36	45	33	43	41
Humanities[1]	125	122	139	170	173	157	156	139	133	162
Education	81	81	92	124	107	90	100	111	83	63
Professional/other	43	38	44	47	56	40	43	44	46	37
Grand total, all fields	687	788	1,110	1,409	1,282	1,096	1,021	928	814	827
	Non-U.S. citizens with temporary visas									
Science and engineering, total[1]	8,116	8,138	7,536	7,007	7,835	7,509	7,776	7,240	7,645	7,925
Engineering, total	2,750	2,792	2,654	2,527	2,734	2,555	2,582	2,194	2,446	2,772
Chemical	339	338	337	318	401	343	373	282	308	335
Civil	359	380	385	337	372	310	316	253	279	297
Electrical	726	705	735	712	750	712	709	638	779	927
Mechanical	540	554	459	439	436	449	454	354	432	491
Other engineering	786	815	738	721	775	741	730	667	648	722
Sciences, total[1]	5,366	5,346	4,882	4,480	5,101	4,954	5,194	5,046	5,199	5,153
Physical sciences, total	1,350	1,265	1,109	931	1,141	1,084	1,203	1,127	1,154	1,213
Astronomy	28	34	32	28	42	37	52	37	42	53
Chemistry	731	676	597	493	613	599	658	622	646	671
Physics	583	551	473	400	483	446	488	463	458	480
Other physical sciences	8	4	7	10	3	2	5	5	8	9
Earth, atmospheric, & ocean sciences	236	236	199	173	206	231	216	242	203	252
Mathematics	511	518	451	384	443	441	447	444	443	435
Computer sciences	366	349	343	365	377	330	328	330	361	356
Biological sciences	1,163	1,249	1,059	970	1,243	1,322	1,334	1,287	1,385	1,239
Agricultural sciences	477	449	454	429	442	392	462	459	415	358
Psychology	156	150	151	165	180	137	169	153	164	152
Social sciences[1]	1,107	1,130	1,116	1,063	1,069	1,017	1,035	1,004	1,074	1,148
Non-S&E, total[1]	1,873	1,835	1,889	1,822	1,814	1,684	1,720	1,819	2,004	1,855
Health	227	215	230	246	268	273	286	286	306	317
Humanities[1]	497	472	531	548	522	530	534	536	630	553
Education	560	555	537	505	482	411	489	517	540	500
Professional/other	589	593	591	523	542	470	411	480	528	485
Grand total, all fields	9,989	9,973	9,425	8,829	9,649	9,193	9,496	9,059	9,649	9,780

See explanatory information, if any, and SOURCE at end of table.

Table 3. Doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	Non-U.S. citizens with temporary visas, men									
Science and engineering, total[1]	6,764	6,676	6,215	5,758	6,335	5,988	6,021	5,592	5,782	5,964
Engineering, total	2,581	2,629	2,476	2,368	2,506	2,344	2,308	1,934	2,144	2,365
Chemical	308	310	302	297	356	300	313	238	260	256
Civil	332	358	360	314	341	289	277	227	242	255
Electrical	680	662	679	668	698	676	657	576	691	800
Mechanical	520	535	445	426	420	420	425	323	397	442
Other engineering	741	764	690	663	691	659	636	570	554	612
Sciences, total[1]	4,183	4,047	3,739	3,390	3,829	3,644	3,713	3,658	3,638	3,599
Physical sciences, total	1,102	1,017	910	771	932	861	924	879	903	941
Astronomy	24	32	28	24	36	27	34	30	37	45
Chemistry	558	504	440	378	465	446	455	442	473	475
Physics	512	478	435	361	429	388	432	402	387	415
Other physical sciences	8	3	7	8	2	0	3	5	6	6
Earth, atmospheric, & ocean sciences	198	203	160	151	170	195	175	195	145	192
Mathematics	427	423	367	305	360	366	362	367	359	325
Computer sciences	330	323	302	322	335	292	305	283	313	309
Biological sciences	791	810	704	635	802	818	796	819	832	741
Agricultural sciences	395	359	367	340	340	299	355	343	311	249
Psychology	81	64	71	80	86	58	68	70	68	68
Social sciences[1]	859	848	858	786	804	755	728	702	707	774
Non-S&E, total[1]	1,228	1,217	1,130	1,112	1,093	1,001	1,006	1,044	1,059	1,022
Health	160	138	115	142	151	135	157	139	143	168
Humanities[1]	281	280	294	309	280	296	274	297	296	297
Education	301	313	269	246	245	205	250	244	245	214
Professional/other	486	486	452	415	417	365	325	364	375	343
Grand total, all fields	7,992	7,893	7,345	6,870	7,428	6,989	7,027	6,636	6,841	6,986
	Non-U.S. citizens with temporary visas, women									
Science and engineering, total[1]	1,352	1,462	1,321	1,249	1,500	1,521	1,755	1,648	1,863	1,961
Engineering, total	169	163	178	159	228	211	274	260	302	407
Chemical	31	28	35	21	45	43	60	44	48	79
Civil	27	22	25	23	31	21	39	26	37	42
Electrical	46	43	56	44	52	36	52	62	88	127
Mechanical	20	19	14	13	16	29	29	31	35	49
Other engineering	45	51	48	58	84	82	94	97	94	110
Sciences, total[1]	1,183	1,299	1,143	1,090	1,272	1,310	1,481	1,388	1,561	1,554
Physical sciences, total	248	248	199	160	209	223	279	248	251	272
Astronomy	4	2	4	4	6	10	18	7	5	8
Chemistry	173	172	157	115	148	153	203	180	173	196
Physics	71	73	38	39	54	58	56	61	71	65
Other physical sciences	0	1	0	2	1	2	2	0	2	3
Earth, atmospheric, & ocean sciences	38	33	39	22	36	36	41	47	58	60
Mathematics	84	95	84	79	83	75	85	77	84	110
Computer sciences	36	26	41	43	42	38	23	47	48	47
Biological sciences	372	439	355	335	441	504	538	468	553	498
Agricultural sciences	82	90	87	89	102	93	107	116	104	109
Psychology	75	86	80	85	94	79	101	83	96	84
Social sciences[1]	248	282	258	277	265	262	307	302	367	374
Non-S&E, total[1]	645	618	759	710	721	683	714	775	945	833
Health	67	77	115	104	117	138	129	147	163	149
Humanities[1]	216	192	237	239	242	234	260	239	334	256
Education	259	242	268	259	237	206	239	273	295	286
Professional/other	103	107	139	108	125	105	86	116	153	142
Grand total, all fields	1,997	2,080	2,080	1,959	2,221	2,204	2,469	2,423	2,808	2,794

[1] Categories are grouped differently from the questionnaire and the Summary Reports in that linguistics, history of science, American studies, and archaeology are included not in humanities but in social science.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates

Table 4. Doctorates awarded, by major field and citizenship status of recipients: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	Total									
Science and engineering, total[1]	24,675	25,443	26,205	26,536	27,243	27,242	27,283	25,940	25,951	25,509
Engineering, total	5,438	5,696	5,822	6,008	6,309	6,118	5,927	5,332	5,320	5,502
Aeronautical/astronautical	234	228	230	252	287	273	242	207	215	203
Chemical	725	737	725	708	798	767	776	674	725	728
Civil	594	624	684	656	698	658	650	584	555	593
Electrical	1,483	1,543	1,673	1,731	1,741	1,721	1,598	1,478	1,542	1,577
Industrial	196	236	228	284	259	246	229	212	176	205
Materials/metallurgical	485	535	539	568	574	582	565	469	451	499
Mechanical	987	1,030	1,015	1,025	1,052	1,023	1,023	855	863	953
Other engineering	734	765	728	764	900	850	846	853	793	746
Sciences, total[1]	19,237	19,745	20,383	20,528	20,934	21,124	21,356	20,608	20,631	20,007
Physical sciences, total	3,781	3,699	3,977	3,841	3,836	3,769	3,825	3,579	3,408	3,389
Astronomy	134	145	144	173	192	198	207	159	185	186
Chemistry	2,214	2,137	2,257	2,162	2,148	2,148	2,216	2,132	1,989	1,979
Physics	1,403	1,399	1,548	1,479	1,485	1,401	1,378	1,271	1,205	1,193
Other physical sciences	30	18	28	27	13	22	24	17	29	31
Earth, atmospheric, and ocean sciences	794	771	824	780	794	878	814	805	757	749
Mathematics	1,058	1,146	1,118	1,190	1,122	1,123	1,177	1,083	1,049	1,006
Computer sciences	869	880	903	997	920	909	927	855	859	826
Biological sciences	4,799	5,092	5,203	5,375	5,724	5,789	5,846	5,583	5,849	5,678
Agricultural sciences	1,063	968	1,078	1,036	1,036	982	1,037	966	942	848
Psychology	3,263	3,420	3,379	3,430	3,497	3,562	3,676	3,673	3,618	3,433
Social sciences[1]	3,610	3,769	3,901	3,879	4,003	4,112	4,054	4,064	4,149	4,078
Non-S&E, total[1]	14,215	14,357	14,832	15,211	15,195	15,317	15,371	15,157	15,389	15,235
Health	1,112	1,197	1,296	1,330	1,324	1,421	1,500	1,407	1,592	1,613
Humanities[1]	4,036	4,091	4,374	4,691	4,712	5,037	5,116	5,033	5,213	5,153
Education	6,677	6,689	6,711	6,649	6,784	6,580	6,575	6,545	6,419	6,324
Professional/other	2,390	2,380	2,451	2,541	2,375	2,279	2,180	2,172	2,165	2,145
Grand total, all fields	38,890	39,800	41,037	41,747	42,438	42,559	42,654	41,097	41,340	40,744
	Citizenship known									
Science and engineering, total[1]	24,058	24,711	25,723	26,004	26,485	25,907	26,033	24,805	24,751	24,187
Engineering, total	5,270	5,489	5,707	5,869	6,123	5,887	5,628	5,082	5,015	5,207
Aeronautical/astronautical	215	219	226	247	277	265	223	195	202	189
Chemical	717	715	717	699	792	752	747	653	690	690
Civil	574	607	677	646	677	637	613	565	539	566
Electrical	1,445	1,500	1,634	1,683	1,679	1,652	1,513	1,403	1,426	1,488
Industrial	192	230	228	280	253	237	221	208	171	196
Materials/metallurgical	469	518	530	576	559	559	541	454	425	473
Mechanical	966	988	997	1,002	1,024	987	970	817	829	918
Other engineering	692	712	698	736	862	798	800	787	733	687
Sciences, total[1]	18,788	19,222	20,016	20,135	20,362	20,020	20,405	19,723	19,736	18,980
Physical sciences, total	3,707	3,595	3,898	3,772	3,711	3,581	3,658	3,404	3,246	3,258
Astronomy	134	145	144	169	191	195	199	154	181	176
Chemistry	2,172	2,076	2,213	2,117	2,075	2,038	2,125	2,028	1,887	1,900
Physics	1,373	1,357	1,517	1,459	1,432	1,329	1,311	1,205	1,150	1,158
Other physical sciences	28	17	24	27	13	19	23	17	28	24
Earth, atmospheric, and ocean sciences	777	740	812	767	764	838	778	767	711	716
Mathematics	1,018	1,108	1,108	1,155	1,091	1,070	1,116	1,049	1,016	957
Computer sciences	855	858	886	981	891	850	889	822	818	776
Biological sciences	4,731	5,001	5,147	5,299	5,608	5,578	5,642	5,411	5,650	5,455
Agricultural sciences	1,050	955	1,070	1,027	1,018	942	1,005	953	917	787
Psychology	3,142	3,311	3,287	3,350	3,415	3,267	3,443	3,446	3,394	3,165
Social sciences[1]	3,508	3,654	3,808	3,784	3,864	3,894	3,874	3,871	3,984	3,868
Non-S&E, total[1]	13,921	13,969	14,599	14,886	14,708	14,379	14,624	14,544	14,810	14,322
Health	1,082	1,154	1,280	1,290	1,284	1,301	1,440	1,335	1,501	1,456
Humanities[1]	3,937	3,983	4,297	4,604	4,569	4,766	4,861	4,827	5,018	4,914
Education	6,577	6,523	6,603	6,500	6,556	6,163	6,236	6,329	6,212	5,931
Professional/other	2,325	2,309	2,419	2,492	2,297	2,149	2,087	2,053	2,079	2,021
Grand total, all fields	37,979	38,680	40,322	40,890	41,191	40,286	40,657	39,349	39,561	38,509

See explanatory information, if any, and SOURCE at end of table.

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Table 4. Doctorates awarded, by major field and citizenship status of recipients: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	U.S. citizens									
Science and engineering, total[1]	14,559	14,932	15,166	15,488	15,641	16,117	16,238	15,913	15,692	14,999
Engineering, total	2,109	2,228	2,215	2,386	2,596	2,739	2,567	2,486	2,217	2,139
Aeronautical/astronautical	95	114	110	140	166	155	139	103	117	94
Chemical	318	324	293	291	318	321	328	333	339	327
Civil	164	168	203	206	212	249	246	261	220	222
Electrical	597	630	634	683	708	753	638	639	530	487
Industrial	54	89	89	108	107	102	84	87	67	72
Materials/metallurgical	202	228	218	238	245	271	265	225	221	202
Mechanical	352	347	359	383	436	456	434	398	341	385
Other engineering	327	328	309	337	404	432	433	440	382	370
Sciences, total[1]	12,450	12,704	12,951	13,102	13,045	13,378	13,671	13,427	13,475	12,860
Physical sciences, total	2,157	2,093	2,198	2,137	2,077	2,131	2,141	2,035	1,890	1,860
Astronomy	100	106	103	120	137	151	132	111	127	119
Chemistry	1,328	1,272	1,291	1,238	1,169	1,234	1,288	1,256	1,119	1,126
Physics	709	704	789	764	762	731	705	657	625	602
Other physical sciences	20	11	15	15	9	15	16	11	19	13
Earth, atmospheric, and ocean sciences	506	463	507	478	462	537	500	474	474	428
Mathematics	454	496	504	554	490	530	576	539	517	468
Computer sciences	422	425	426	484	422	430	476	420	387	365
Biological sciences	3,328	3,449	3,422	3,494	3,547	3,670	3,756	3,660	3,901	3,876
Agricultural sciences	511	457	519	492	473	487	464	443	447	401
Psychology	2,900	3,071	3,052	3,084	3,131	3,041	3,181	3,223	3,154	2,938
Social sciences[1]	2,172	2,250	2,323	2,379	2,443	2,572	2,577	2,633	2,705	2,524
Non-S&E, total[1]	11,451	11,516	11,984	12,255	12,136	12,045	12,221	12,071	12,263	11,908
Health	809	879	961	938	933	959	1,072	972	1,120	1,070
Humanities[1]	3,211	3,273	3,486	3,748	3,728	3,947	4,023	4,008	4,155	4,096
Education	5,852	5,791	5,867	5,777	5,878	5,587	5,575	5,634	5,546	5,315
Professional/other	1,579	1,573	1,670	1,792	1,597	1,552	1,551	1,457	1,442	1,427
Grand total, all fields	26,010	26,448	27,150	27,743	27,777	28,162	28,459	27,984	27,955	26,907
	Non-U.S. citizens									
Science and engineering, total[1]	9,499	9,779	10,557	10,516	10,844	9,790	9,795	8,892	9,059	9,188
Engineering, total	3,161	3,261	3,492	3,483	3,527	3,148	3,061	2,596	2,798	3,068
Aeronautical/astronautical	120	105	116	107	111	110	84	92	85	95
Chemical	399	391	424	408	474	431	419	320	351	363
Civil	410	439	474	440	465	388	367	304	319	344
Electrical	848	870	1,000	1,000	971	899	875	764	896	1,021
Industrial	138	141	139	172	146	135	137	121	104	124
Materials/metallurgical	267	290	312	338	314	288	276	229	204	271
Mechanical	614	641	638	619	588	531	536	419	488	533
Other engineering	365	384	389	399	458	366	367	347	351	317
Sciences, total[1]	6,338	6,518	7,065	7,033	7,317	6,642	6,734	6,296	6,261	6,120
Physical sciences, total	1,550	1,502	1,700	1,635	1,634	1,450	1,517	1,369	1,356	1,396
Astronomy	34	39	41	49	54	44	67	43	54	57
Chemistry	844	804	922	879	906	804	837	772	768	774
Physics	664	653	728	695	670	598	606	548	525	554
Other physical sciences	8	6	9	12	4	4	7	6	9	11
Earth, atmospheric, and ocean sciences	271	277	305	289	302	301	278	293	237	288
Mathematics	564	612	604	601	601	540	540	510	499	489
Computer sciences	433	433	460	497	469	420	413	402	431	411
Biological sciences	1,403	1,552	1,725	1,805	2,061	1,908	1,886	1,751	1,749	1,579
Agricultural sciences	539	498	551	535	545	475	541	510	470	386
Psychology	242	240	235	266	284	226	262	223	240	227
Social sciences[1]	1,336	1,404	1,485	1,405	1,421	1,322	1,297	1,238	1,279	1,344
Non-S&E, total[1]	2,470	2,453	2,615	2,631	2,570	2,334	2,403	2,473	2,547	2,414
Health	273	275	319	352	351	342	368	363	381	386
Humanities[1]	726	710	811	856	841	819	838	819	863	818
Education	725	732	736	723	678	576	661	695	666	616
Professional/other	746	736	749	700	700	597	536	596	637	594
Grand total, all fields	11,969	12,232	13,172	13,147	13,414	12,124	12,198	11,365	11,606	11,602

See explanatory information, if any, and SOURCE at end of table.

Table 4. Doctorates awarded, by major field and citizenship status of recipients: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	Non-U.S. citizens with permanent visas									
Science and engineering, total[1]	1,383	1,641	3,021	3,509	3,009	2,281	2,019	1,652	1,414	1,263
Engineering, total	411	469	838	956	793	593	479	402	352	296
Aeronautical/astronautical	8	6	20	13	18	13	13	9	10	8
Chemical	60	53	87	90	73	88	46	38	43	28
Civil	51	59	89	103	93	78	51	51	40	47
Electrical	122	165	265	288	221	187	166	126	117	94
Industrial	20	16	30	41	29	17	17	13	10	16
Materials/metallurgical	34	39	79	114	82	44	48	35	23	23
Mechanical	74	87	179	180	152	82	82	65	56	42
Other engineering	42	44	89	127	115	84	56	65	53	38
Sciences, total[1]	972	1,172	2,183	2,553	2,216	1,688	1,540	1,250	1,062	967
Physical sciences, total	200	237	591	704	493	386	314	242	202	183
Astronomy	6	5	9	21	12	7	15	6	12	4
Chemistry	113	128	325	386	293	205	179	150	122	103
Physics	81	102	255	295	187	152	118	85	67	74
Other physical sciences	0	2	2	2	1	2	2	1	1	2
Earth, atmospheric, and ocean sciences	35	41	106	116	96	70	62	51	34	36
Mathematics	53	94	153	217	158	99	93	66	56	54
Computer sciences	67	84	117	132	92	90	85	72	70	55
Biological sciences	240	303	666	835	818	586	552	464	364	340
Agricultural sciences	62	49	97	106	103	83	79	51	55	28
Psychology	86	90	84	101	104	89	93	70	76	75
Social sciences[1]	229	274	369	342	352	305	262	234	205	196
Non-S&E, total[1]	597	618	726	809	756	650	683	654	543	559
Health	46	60	89	106	83	69	82	77	75	69
Humanities[1]	229	238	280	308	319	289	304	283	233	265
Education	165	177	199	218	196	165	172	178	126	116
Professional/other	157	143	158	177	158	127	125	116	109	109
Grand total, all fields	1,980	2,259	3,747	4,318	3,765	2,931	2,702	2,306	1,957	1,822
	Non-U.S. citizens with temporary visas									
Science and engineering, total[1]	8,116	8,138	7,536	7,007	7,835	7,509	7,776	7,240	7,645	7,925
Engineering, total	2,750	2,792	2,654	2,527	2,734	2,555	2,582	2,194	2,446	2,772
Aeronautical/astronautical	112	99	96	94	93	97	71	83	75	87
Chemical	339	338	337	318	401	343	373	282	308	335
Civil	359	380	385	337	372	310	316	253	279	297
Electrical	726	705	735	712	750	712	709	638	779	927
Industrial	118	125	109	131	117	118	120	108	94	108
Materials/metallurgical	233	251	233	224	222	244	228	194	181	248
Mechanical	540	554	459	439	436	449	454	354	432	491
Other engineering	323	340	300	272	343	282	311	282	298	279
Sciences, total[1]	5,366	5,346	4,882	4,480	5,101	4,954	5,194	5,046	5,199	5,153
Physical sciences, total	1,350	1,265	1,109	931	1,141	1,084	1,203	1,127	1,154	1,213
Astronomy	28	34	32	28	42	37	52	37	42	53
Chemistry	731	676	597	493	613	599	658	622	646	671
Physics	583	551	473	400	483	446	488	463	458	480
Other physical sciences	8	4	7	10	3	2	5	5	8	9
Earth, atmospheric, and ocean sciences	236	236	199	173	206	231	216	242	203	252
Mathematics	511	518	451	384	443	441	447	444	445	435
Computer sciences	366	349	343	365	377	330	328	330	361	356
Biological sciences	1,163	1,249	1,059	970	1,243	1,322	1,334	1,287	1,385	1,239
Agricultural sciences	477	449	454	429	442	392	462	459	415	358
Psychology	156	150	151	165	180	137	169	153	164	152
Social sciences[1]	1,107	1,130	1,116	1,063	1,069	1,017	1,035	1,004	1,074	1,148
Non-S&E, total[1]	1,873	1,835	1,889	1,822	1,814	1,684	1,720	1,819	2,004	1,855
Health	227	215	230	246	268	273	286	286	308	317
Humanities[1]	497	472	531	548	522	530	534	536	630	553
Education	560	555	537	505	482	411	489	517	540	500
Professional/other	589	593	591	523	542	470	411	480	528	485
Grand total, all fields	9,989	9,973	9,425	8,829	9,649	9,193	9,496	9,059	9,649	9,780

See explanatory information, if any, and SOURCE at end of table.

Table 4. Doctorates awarded, by major field and citizenship status of recipients: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	Citizenship unknown									
Science and engineering, total[1]	617	732	482	532	758	1,335	1,250	1,135	1,200	1,322
Engineering, total	168	209	115	139	186	231	299	250	305	295
Aeronautical/astronautical	19	9	4	5	10	8	19	12	13	14
Chemical	8	22	8	9	6	15	29	21	35	36
Civil	20	17	7	10	21	19	37	19	16	27
Electrical	38	43	39	48	62	69	83	75	116	89
Industrial	4	6	0	4	6	9	8	4	5	9
Materials/metallurgical	16	17	9	12	15	23	24	15	26	26
Mechanical	21	42	18	23	28	36	53	38	34	35
Other engineering	42	53	30	28	38	52	46	66	60	59
Sciences, total[1]	449	523	367	393	572	1,104	951	885	895	1,027
Physical sciences, total	74	104	79	69	127	188	167	175	162	133
Astronomy	0	0	0	4	1	3	8	5	4	10
Chemistry	42	61	44	45	73	110	91	104	102	79
Physics	30	42	31	20	53	72	67	66	55	37
Other physical sciences	2	1	4	0	0	3	1	0	1	7
Earth, atmospheric, and ocean sciences	17	31	12	13	30	40	36	38	46	33
Mathematics	40	38	10	35	31	53	61	34	33	49
Computer sciences	14	22	17	16	29	59	38	33	41	50
Biological sciences	68	91	56	76	116	211	204	172	199	223
Agricultural sciences	13	13	8	9	18	40	32	13	25	61
Psychology	121	109	92	80	82	295	233	227	224	268
Social sciences[1]	102	115	93	95	139	218	180	193	165	210
Non-S&E, total[1]	294	388	233	325	489	938	747	613	579	913
Health	30	43	16	40	40	120	60	72	91	157
Humanities[1]	99	108	77	87	143	271	255	206	195	239
Education	100	166	108	149	228	417	339	216	207	393
Professional/other	65	71	32	49	78	130	93	119	86	124
Grand total, all fields	911	1,120	715	857	1,247	2,273	1,997	1,748	1,779	2,235

[1] Categories are grouped differently from the questionnaire and the Summary Reports in that linguistics, history of science, American studies, and archaeology are included not in humanities but in social science.

SOURCE: National Science Foundation /Division of Science Resources Statistics, Survey of Earned Doctorates

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Table 4a. Percentage distribution of science and engineering doctorates awarded, by major field and citizenship status of recipients: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	Total									
Science and engineering, total[1]	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering, total	22.0	22.4	22.2	22.6	23.2	22.5	21.7	20.6	20.5	21.6
Aeronautical/astronautical	.9	.9	.9	.9	1.1	1.0	.9	.8	.8	.8
Chemical	2.9	2.9	2.8	2.7	2.9	2.8	2.8	2.6	2.8	2.8
Civil	2.4	2.5	2.6	2.5	2.6	2.4	2.4	2.3	2.1	2.3
Electrical	6.0	6.1	6.4	6.5	6.4	6.3	5.8	5.7	5.9	6.2
Industrial	.8	.9	.9	1.1	1.0	.9	.8	.8	.7	.8
Materials/metallurgical	2.0	2.1	2.1	2.2	2.1	2.1	2.1	1.8	1.7	2.0
Mechanical	4.0	4.0	3.9	3.9	3.9	3.8	3.7	3.3	3.3	3.7
Other engineering	3.0	3.0	2.8	2.9	3.3	3.1	3.1	3.3	3.1	2.9
Sciences, total[1]	78.0	77.6	77.8	77.4	76.8	77.5	78.3	79.4	79.5	78.4
Physical sciences, total	15.3	14.5	15.2	14.5	14.1	13.8	14.0	13.8	13.1	13.3
Astronomy	.5	.6	.5	.7	.7	.7	.8	.6	.7	.7
Chemistry	9.0	8.4	8.6	8.1	7.9	7.9	8.1	8.2	7.7	7.8
Physics	5.7	5.5	5.9	5.6	5.5	5.1	5.1	4.9	4.6	4.7
Other physical sciences	.1	.1	.1	.1	.0	.1	.1	.1	.1	.1
Earth, atmospheric, and ocean sciences	3.2	3.0	3.1	2.9	2.9	3.2	3.0	3.1	2.9	2.9
Mathematics	4.3	4.5	4.3	4.5	4.1	4.1	4.3	4.2	4.0	3.9
Computer sciences	3.5	3.5	3.4	3.8	3.4	3.3	3.4	3.3	3.3	3.2
Biological sciences	19.4	20.0	19.9	20.3	21.0	21.3	21.4	21.5	22.5	22.3
Agricultural sciences	4.3	3.8	4.1	3.9	3.8	3.6	3.8	3.7	3.6	3.3
Psychology	13.2	13.4	12.9	12.9	12.8	13.1	13.5	14.2	13.9	13.5
Social sciences[1]	14.6	14.8	14.9	14.6	14.7	15.1	14.9	15.7	16.0	16.0
	Citizenship known									
Science and engineering, total[1]	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering, total	21.9	22.2	22.2	22.6	23.1	22.7	21.6	20.5	20.3	21.5
Aeronautical/astronautical	.9	.9	.9	.9	1.0	1.0	.9	.8	.8	.8
Chemical	3.0	2.9	2.8	2.7	3.0	2.9	2.9	2.6	2.8	2.9
Civil	2.4	2.5	2.6	2.5	2.6	2.5	2.4	2.3	2.2	2.3
Electrical	6.0	6.1	6.4	6.5	6.3	6.4	5.8	5.7	5.8	6.2
Industrial	.8	.9	.9	1.1	1.0	.9	.8	.8	.7	.8
Materials/metallurgical	1.9	2.1	2.1	2.2	2.1	2.2	2.1	1.8	1.7	2.0
Mechanical	4.0	4.0	3.9	3.9	3.9	3.8	3.7	3.3	3.3	3.8
Other engineering	2.9	2.9	2.7	2.8	3.3	3.1	3.1	3.2	3.0	2.8
Sciences, total[1]	78.1	77.8	77.8	77.4	76.9	77.3	78.4	79.5	79.7	78.5
Physical sciences, total	15.4	14.5	15.2	14.5	14.0	13.8	14.1	13.7	13.1	13.5
Astronomy	.6	.6	.6	.6	.7	.8	.8	.6	.7	.7
Chemistry	9.0	8.4	8.6	8.1	7.8	7.9	8.2	8.2	7.6	7.9
Physics	5.7	5.5	5.9	5.6	5.4	5.1	5.0	4.9	4.8	4.8
Other physical sciences	.1	.1	.1	.1	.0	.1	.1	.1	.1	.1
Earth, atmospheric, and ocean sciences	3.2	3.0	3.2	2.9	2.9	3.2	3.0	3.1	2.9	3.0
Mathematics	4.2	4.5	4.3	4.4	4.1	4.1	4.3	4.2	4.1	4.0
Computer sciences	3.8	3.5	3.4	3.8	3.4	3.3	3.4	3.3	3.3	3.2
Biological sciences	19.7	20.2	20.0	20.4	21.2	21.5	21.7	21.8	22.8	22.6
Agricultural sciences	4.4	3.9	4.2	3.9	3.8	3.6	3.9	3.8	3.7	3.3
Psychology	13.1	13.4	12.8	12.9	12.9	12.6	13.2	13.9	13.7	13.1
Social sciences[1]	14.6	14.8	14.8	14.6	14.6	15.0	14.9	15.6	16.1	16.0

See explanatory information, if any, and SOURCE at end of table.

Table 4a. Percentage distribution of science and engineering doctorates awarded, by major field and citizenship status of recipients: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	U.S. citizens									
Science and engineering, total[1]	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering, total	14.5	14.9	14.6	15.4	16.6	17.0	15.8	15.6	14.1	14.3
Aeronautical/astronautical	.7	.8	.7	.9	1.1	1.0	.9	.6	.7	.6
Chemical	2.2	2.2	1.9	1.9	2.0	2.0	2.0	2.1	2.2	2.2
Civil	1.1	1.1	1.3	1.3	1.4	1.5	1.5	1.6	1.4	1.5
Electrical	4.1	4.2	4.2	4.4	4.5	4.7	3.9	4.0	3.4	3.1
Industrial	.4	.6	.6	.7	.7	.6	.5	.5	.4	.5
Materials/metallurgical	1.4	1.5	1.4	1.5	1.6	1.7	1.6	1.4	1.4	1.3
Mechanical	2.4	2.3	2.4	2.5	2.8	2.8	2.7	2.5	2.2	2.8
Other engineering	2.2	2.2	2.0	2.2	2.6	2.7	2.7	2.8	2.4	2.5
Sciences, total[1]	85.5	85.1	85.4	84.6	83.4	83.0	84.2	84.4	85.9	85.7
Physical sciences, total	14.8	14.0	14.5	13.8	13.3	13.2	13.2	12.8	12.0	12.4
Astronomy	.7	.7	.7	.8	.9	.9	.8	.7	.8	.8
Chemistry	9.1	8.5	8.5	8.0	7.5	7.7	7.9	7.9	7.1	7.5
Physics	4.9	4.7	5.2	4.9	4.9	4.5	4.3	4.1	4.0	4.0
Other physical sciences	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
Earth, atmospheric, and ocean sciences	3.5	3.1	3.3	3.1	3.0	3.3	3.1	3.0	3.0	2.9
Mathematics	3.1	3.3	3.3	3.6	3.1	3.3	3.5	3.4	3.3	3.1
Computer sciences	2.9	2.8	2.8	3.1	2.7	2.7	2.9	2.6	2.5	2.4
Biological sciences	22.9	23.1	22.6	22.6	22.7	22.8	23.1	23.0	24.9	25.8
Agricultural sciences	3.5	3.1	3.4	3.2	3.0	2.9	2.9	2.8	2.8	2.7
Psychology	19.9	20.6	20.1	19.9	20.0	18.9	19.6	20.3	20.1	19.6
Social sciences[1]	14.9	15.1	15.3	15.4	15.6	16.0	15.9	16.5	17.2	16.6
	Non-U.S. citizens									
Science and engineering, total[1]	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering, total	33.3	33.3	33.1	33.1	32.5	32.2	31.3	29.2	30.9	33.4
Aeronautical/astronautical	1.3	1.1	1.1	1.0	1.0	1.1	.9	1.0	.9	1.0
Chemical	4.2	4.0	4.0	3.9	4.4	4.4	4.3	3.6	3.9	4.0
Civil	4.3	4.5	4.5	4.2	4.3	4.0	3.7	3.4	3.5	3.7
Electrical	8.9	8.9	9.5	9.5	9.0	9.2	8.9	8.6	9.9	11.1
Industrial	1.5	1.4	1.3	1.6	1.3	1.4	1.4	1.4	1.1	1.3
Materials/metallurgical	2.8	3.0	3.0	3.2	2.9	2.9	2.8	2.6	2.3	2.9
Mechanical	6.5	6.6	6.0	5.9	5.4	5.4	5.5	4.7	5.4	5.8
Other engineering	3.8	3.9	3.7	3.8	4.2	3.7	3.7	3.9	3.9	3.5
Sciences, total[1]	66.7	66.7	66.9	66.9	67.5	67.8	68.7	70.8	69.1	66.6
Physical sciences, total	16.3	15.4	16.1	15.5	15.1	14.8	15.5	15.4	15.0	15.2
Astronomy	.4	.4	.4	.5	.5	.4	.7	.5	.6	.6
Chemistry	8.9	8.2	8.7	8.4	8.4	8.2	8.5	8.7	8.5	8.4
Physics	7.0	6.7	6.9	6.6	6.2	6.1	6.2	6.2	5.8	6.0
Other physical sciences	.1	.1	.1	.1	.0	.0	.1	.1	.1	.1
Earth, atmospheric, and ocean sciences	2.9	2.8	2.9	2.7	2.8	3.1	2.8	3.3	2.6	3.1
Mathematics	5.9	6.3	5.7	5.7	5.5	5.5	5.5	5.7	5.5	5.3
Computer sciences	4.6	4.4	4.4	4.7	4.3	4.3	4.2	4.5	4.8	4.5
Biological sciences	14.8	15.9	16.3	17.2	19.0	19.5	19.3	19.7	19.3	17.2
Agricultural sciences	5.7	5.1	5.2	5.1	5.0	4.9	5.5	5.7	5.2	4.2
Psychology	2.5	2.5	2.2	2.5	2.6	2.3	2.7	2.5	2.6	2.5
Social sciences[1]	14.1	14.4	14.1	13.4	13.1	13.5	13.2	13.9	14.1	14.6

See explanatory information, if any, and SOURCE at end of table.

Table 4a. Percentage distribution of science and engineering doctorates awarded, by major field and citizenship status of recipients: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	Non-U.S. citizens with permanent visas									
Science and engineering, total[1]	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering, total	29.7	28.6	27.7	27.2	26.4	26.0	23.7	24.3	24.9	23.4
Aeronautical/astronautical	.6	.4	.7	.4	.6	.6	.6	.5	.7	.6
Chemical	4.3	3.2	2.9	2.6	2.4	3.9	2.3	2.3	3.0	2.2
Civil	3.7	3.6	2.9	2.9	3.1	3.4	2.5	3.1	2.8	3.7
Electrical	8.8	10.1	8.8	8.2	7.3	8.2	8.2	7.6	8.3	7.4
Industrial	1.4	1.0	1.0	1.2	1.0	.7	.8	.8	.7	1.3
Materials/metallurgical	2.5	2.4	2.6	3.2	3.1	1.9	2.4	2.1	1.6	1.8
Mechanical	5.4	5.3	5.9	5.1	5.1	3.6	4.1	3.9	4.0	3.3
Other engineering	3.0	2.7	2.9	3.6	3.8	3.7	2.8	3.9	3.7	3.0
Sciences, total[1]	70.3	71.4	72.3	72.8	73.6	74.0	76.3	75.7	75.1	76.6
Physical sciences, total	14.5	14.4	19.6	20.1	16.4	16.0	15.6	14.6	14.3	14.5
Astronomy	.4	.3	.3	.6	.4	.3	.7	.4	.8	.3
Chemistry	8.2	7.8	10.8	11.0	9.7	9.0	8.9	9.1	8.6	8.2
Physics	5.9	6.2	8.4	8.4	6.2	6.7	5.8	5.1	4.7	5.9
Other physical sciences	.0	.1	.1	.1	.0	.1	.1	.1	.1	.2
Earth, atmospheric, and ocean sciences	2.5	2.5	3.5	3.3	3.2	3.1	3.1	3.1	2.4	2.9
Mathematics	3.8	5.7	5.1	6.2	5.3	4.3	4.6	4.0	4.0	4.3
Computer sciences	4.8	5.1	3.9	3.8	3.1	3.9	4.2	4.4	5.0	4.4
Biological sciences	17.4	18.5	22.0	23.8	27.2	25.7	27.3	29.1	25.7	26.9
Agricultural sciences	4.5	3.0	3.2	3.0	3.4	3.6	3.9	3.1	3.9	2.2
Psychology	6.2	5.5	2.8	2.9	3.5	3.9	4.6	4.2	5.4	5.9
Social sciences[1]	16.6	16.7	12.2	9.7	11.7	13.4	13.0	14.2	14.5	15.5
	Non-U.S. citizens with temporary visas									
Science and engineering, total[1]	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering, total	33.9	34.3	35.2	36.1	34.9	34.0	33.2	30.3	32.0	35.0
Aeronautical/astronautical	1.4	1.2	1.3	1.3	1.2	1.3	.9	1.1	1.0	1.1
Chemical	4.2	4.2	4.5	4.5	5.1	4.6	4.8	3.9	4.0	4.2
Civil	4.4	4.7	5.1	4.8	4.7	4.1	4.1	3.5	3.6	3.7
Electrical	8.9	8.7	9.8	10.2	9.6	9.5	9.1	8.8	10.2	11.7
Industrial	1.5	1.5	1.4	1.9	1.5	1.8	1.5	1.5	1.2	1.4
Materials/metallurgical	2.9	3.1	3.1	3.2	2.8	3.2	2.9	2.7	2.4	3.1
Mechanical	6.7	6.8	6.1	6.3	5.6	6.0	5.8	4.8	5.7	6.2
Other engineering	4.0	4.2	4.0	3.9	4.4	3.8	4.0	3.8	3.9	3.5
Sciences, total[1]	66.1	65.7	64.8	63.9	65.1	66.0	66.8	69.7	68.0	65.0
Physical sciences, total	16.6	15.5	14.7	13.3	14.6	14.4	15.5	15.6	15.1	15.3
Astronomy	.3	.4	.4	.4	.5	.5	.7	.5	.5	.7
Chemistry	9.0	8.3	7.9	7.0	7.8	8.0	8.5	8.6	8.4	8.5
Physics	7.2	6.8	6.3	5.7	6.2	5.9	6.3	6.4	6.0	6.1
Other physical sciences	.1	.0	.1	.1	.0	.0	.1	.1	.1	.1
Earth, atmospheric, and ocean sciences	2.9	2.9	2.6	2.5	2.6	3.1	2.8	3.3	2.7	3.2
Mathematics	6.3	6.4	6.0	5.5	5.7	5.9	5.7	6.1	5.8	5.5
Computer sciences	4.5	4.3	4.6	5.2	4.8	4.4	4.2	4.6	4.7	4.5
Biological sciences	14.3	15.3	14.1	13.8	15.9	17.6	17.2	17.8	18.1	15.6
Agricultural sciences	5.9	5.5	6.0	6.1	5.6	5.2	5.9	6.3	5.4	4.5
Psychology	1.9	1.8	2.0	2.4	2.3	1.8	2.2	2.1	2.1	1.9
Social sciences[1]	13.6	13.9	14.8	15.2	13.6	13.5	13.3	13.9	14.0	14.5

See explanatory information, if any, and SOURCE at end of table.

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Table 4a. Percentage distribution of science and engineering doctorates awarded, by major field and citizenship status of recipients: 1992-2001

Field of study	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	Citizenship unknown									
Science and engineering, total[1]	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering, total	27.2	28.6	23.9	26.1	24.5	17.3	23.9	22.0	25.4	22.3
Aeronautical/astronautical	3.1	1.2	.8	.9	1.3	.6	1.5	1.1	1.1	1.1
Chemical	1.3	3.0	1.7	1.7	.8	1.1	2.3	1.9	2.9	2.7
Civil	3.2	2.3	1.5	1.9	2.8	1.4	3.0	1.7	1.3	2.0
Electrical	6.2	5.9	8.1	9.0	8.2	5.2	6.6	6.6	9.7	6.7
Industrial	.6	.8	.0	.8	.8	.7	.6	.4	.4	.7
Materials/metallurgical	2.6	2.3	1.9	2.3	2.0	1.7	1.9	1.3	2.2	2.0
Mechanical	3.4	5.7	3.7	4.3	3.7	2.7	4.2	3.3	2.8	2.6
Other engineering	6.8	7.2	6.2	5.3	5.0	3.9	3.7	5.8	5.0	4.5
Sciences, total[1]	72.8	71.4	76.1	73.9	75.5	82.7	76.1	78.0	74.6	77.7
Physical sciences, total	12.0	14.2	16.4	13.0	16.8	14.1	13.4	15.4	13.5	10.1
Astronomy	.0	.0	.0	.8	.1	.2	.6	.4	.3	.8
Chemistry	6.8	8.3	9.1	8.5	9.6	8.2	7.3	9.2	8.5	6.0
Physics	4.9	5.7	6.4	3.8	7.0	5.4	5.4	5.8	4.6	2.8
Other physical sciences	.3	.1	.8	.0	.0	.2	.1	.0	.1	.5
Earth, atmospheric, and ocean sciences	2.8	4.2	2.5	2.4	4.0	3.0	2.9	3.3	3.8	2.5
Mathematics	6.5	5.2	2.1	6.6	4.1	4.0	4.9	3.0	2.7	3.7
Computer sciences	2.3	3.0	3.5	3.0	3.8	4.4	3.0	2.9	3.4	3.8
Biological sciences	11.0	12.4	11.6	14.3	15.3	15.8	16.3	15.2	16.6	16.9
Agricultural sciences	2.1	1.8	1.7	1.7	2.4	3.0	2.6	1.1	2.1	4.6
Psychology	19.6	14.9	19.1	15.0	10.8	22.1	18.6	20.0	18.7	20.3
Social sciences[1]	16.5	15.7	19.3	17.9	18.3	16.3	14.4	17.0	13.7	15.9

[1] Categories are grouped differently from the questionnaire and the Summary Reports in that linguistics, history of science, American studies, and archaeology are included not in humanities but in social science.

SOURCE: National Science Foundation /Division of Science Resources Statistics, Survey of Earned Doctorates

Table 5. Non-U.S. citizens awarded doctorates in the sciences and in engineering, by country of citizenship, visa type, and year of doctorate: 1992-2001

Country/economy	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	Total non-U.S. citizens, S&E									
Total foreign citizenship	9,499	9,779	10,557	10,516	10,844	9,790	9,795	8,892	9,059	9,188
North America, total	515	506	547	506	530	463	547	533	604	593
Canada	304	285	275	274	276	250	278	282	289	305
Caribbean	44	38	61	61	51	46	61	53	52	39
Central America	52	44	69	43	45	34	43	39	55	44
Mexico	115	139	142	128	158	133	165	159	208	205
South America, total	394	394	408	359	455	388	411	421	434	413
Argentina	86	53	56	49	66	67	70	54	76	69
Brazil	133	151	157	137	205	145	152	157	126	141
Chile	48	52	42	38	36	29	24	33	42	25
Colombia	37	35	48	45	42	38	26	45	54	59
South America, other	90	103	105	90	106	109	139	132	136	119
Europe, total	950	1,104	1,150	1,254	1,259	1,277	1,479	1,461	1,494	1,640
Belgium	42	24	21	32	25	17	17	21	20	24
England, United Kingdom	137	154	128	132	117	90	124	141	99	138
France	77	93	96	83	68	73	76	79	82	84
Germany	124	164	196	208	170	178	205	178	229	220
Europe, other	570	669	709	799	879	919	1,057	1,042	1,064	1,174
East Asia, total	4,865	5,010	5,484	5,486	5,599	4,562	4,533	4,069	4,247	4,328
Taiwan	1,242	1,213	1,301	1,240	1,152	1,024	891	734	669	538
China, People's Republic of	2,069	2,240	2,542	2,762	2,961	2,292	2,415	2,181	2,356	2,405
Hong Kong	109	109	95	90	110	84	83	53	45	46
Japan	132	132	182	155	167	149	152	156	197	150
Korea	1,127	1,123	1,150	1,005	979	848	794	740	745	862
Thailand	87	77	97	113	119	87	115	130	148	233
East Asia, other	99	116	117	121	111	78	83	75	87	94
West Asia, total	1,891	1,903	2,077	2,181	2,145	1,915	1,750	1,596	1,562	1,625
India	861	933	1,065	1,207	1,262	1,211	1,082	890	822	808
Iran	200	203	174	173	147	112	91	92	80	99
Iraq	34	17	22	14	9	7	5	5	2	6
Israel	87	89	109	86	84	59	58	47	44	49
Lebanon	62	50	73	56	54	30	37	24	27	28
Saudi Arabia	76	46	76	71	74	61	39	48	53	52
Turkey	132	136	144	166	147	160	161	187	267	304
West Asia, other	439	429	414	408	368	275	277	303	267	279
Pacific/Australasia, total	220	227	231	231	233	196	192	156	178	157
Australia	40	47	56	61	42	47	46	46	42	44
Indonesia	78	78	83	83	69	62	60	44	61	47
Pacific/Australasia, other	102	102	92	87	122	87	86	66	75	66
Africa, total	510	474	583	423	442	336	339	327	349	332
Egypt	101	88	104	78	89	70	84	61	80	74
Nigeria	68	55	60	53	39	23	34	34	23	20
Africa, other	341	331	419	292	314	243	221	232	246	238
Country unknown	154	161	77	76	181	653	544	329	191	100

See explanatory information, if any, and SOURCE at end of table.

Table 5. Non-U.S. citizens awarded doctorates in the sciences and in engineering, by country of citizenship, visa type, and year of doctorate: 1992-2001

Country/economy	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	Total non-U.S. citizens, engineering									
Total foreign citizenship	3,161	3,261	3,492	3,483	3,527	3,148	3,061	2,596	2,798	3,068
North America, total	73	82	90	82	96	81	92	110	117	107
Canada	46	42	36	41	45	44	35	51	49	45
Caribbean	5	4	14	7	8	12	15	13	8	8
Central America	6	9	10	8	6	2	6	5	6	9
Mexico	16	27	30	26	37	23	36	41	54	45
South America, total	87	97	111	88	117	92	97	92	107	95
Argentina	14	10	7	7	8	14	13	9	11	14
Brazil	31	46	49	46	65	43	47	40	35	36
Chile	10	5	8	8	8	1	1	6	9	7
Colombia	9	8	12	10	7	4	7	7	15	12
South America, other	23	28	35	17	29	30	29	30	37	26
Europe, total	202	244	257	297	235	233	294	274	295	334
Belgium	10	7	7	12	4	4	3	1	5	8
England, United Kingdom	17	18	14	20	10	12	12	14	11	11
France	25	32	32	24	25	11	23	23	23	24
Germany	18	23	29	37	16	27	29	36	46	48
Europe, other	132	164	175	204	180	179	227	200	210	243
East Asia, total	1,701	1,733	1,887	1,869	1,855	1,475	1,450	1,251	1,402	1,630
Taiwan	637	592	670	616	575	434	378	302	286	241
China, People's Republic of	516	545	657	779	808	636	668	581	711	879
Hong Kong	37	32	14	20	31	13	26	11	12	15
Japan	25	23	46	30	32	37	20	30	23	23
Korea	437	484	429	344	323	299	282	264	282	334
Thailand	21	18	34	38	43	38	51	51	58	114
East Asia, other	28	39	37	42	43	18	25	12	30	24
West Asia, total	863	889	908	961	985	908	805	658	666	727
India	405	448	480	572	621	587	518	369	357	346
Iran	110	95	92	85	66	60	43	42	38	61
Iraq	14	6	9	8	2	5	3	5	2	2
Israel	26	23	17	19	20	13	12	8	6	11
Lebanon	37	27	45	31	21	9	18	9	12	10
Saudi Arabia	31	19	28	25	34	30	17	24	17	29
Turkey	81	74	64	73	73	95	79	96	133	143
West Asia, other	159	197	173	148	148	109	115	105	101	125
Pacific/Australasia, total	48	43	50	44	38	46	46	24	44	38
Australia	11	6	11	7	6	8	4	8	4	10
Indonesia	24	29	28	29	15	22	27	13	27	22
Pacific/Australasia, other	13	8	11	8	17	16	15	3	13	6
Africa, total	138	121	168	122	143	105	106	95	109	102
Egypt	46	48	63	48	59	45	60	48	60	46
Nigeria	11	12	6	14	11	8	7	8	4	3
Africa, other	81	61	99	60	73	52	39	39	45	53
Country unknown	49	52	21	20	58	208	171	92	58	35

See explanatory information, if any, and SOURCE at end of table.

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Table 5. Non-U.S. citizens awarded doctorates in the sciences and in engineering, by country of citizenship, visa type, and year of doctorate: 1992-2001

Country/economy	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	Total non-U.S. citizens, sciences									
Total foreign citizenship	6,338	6,518	7,065	7,033	7,317	6,642	6,734	6,296	6,261	6,120
North America, total	442	424	457	424	434	382	455	423	487	486
Canada	258	243	239	233	231	206	243	231	240	260
Caribbean	39	34	47	54	43	34	46	40	44	31
Central America	46	35	59	35	39	32	37	34	49	35
Mexico	99	112	112	102	121	110	129	118	154	160
South America, total	307	297	297	271	338	296	314	329	327	318
Argentina	72	43	49	42	58	53	57	45	65	55
Brazil	102	105	108	91	140	102	105	117	91	105
Chile	38	47	34	30	28	28	23	27	33	18
Colombia	28	27	36	35	35	34	19	38	39	47
South America, other	67	75	70	73	77	79	110	102	99	93
Europe, total	748	860	893	957	1,024	1,044	1,185	1,187	1,199	1,306
Belgium	32	17	14	20	21	13	14	20	15	16
England, United Kingdom	120	136	114	112	107	78	112	127	88	127
France	52	61	64	59	43	62	53	56	59	60
Germany	106	141	167	171	154	151	176	142	183	172
Europe, other	438	505	534	595	699	740	830	842	854	931
East Asia, total	3,164	3,277	3,597	3,617	3,744	3,087	3,083	2,818	2,845	2,698
Taiwan	605	621	631	624	577	590	513	432	383	297
China, People's Republic of	1,553	1,695	1,885	1,983	2,153	1,656	1,747	1,600	1,645	1,526
Hong Kong	72	77	81	70	79	71	57	42	33	31
Japan	107	109	136	125	135	112	132	126	174	127
Korea	690	639	721	661	656	549	512	476	463	528
Thailand	66	59	63	75	76	49	64	79	90	119
East Asia, other	71	77	80	79	68	60	58	63	57	70
West Asia, total	1,028	1,014	1,169	1,220	1,160	1,007	945	938	898	898
India	456	485	585	635	641	624	564	521	465	462
Iran	90	108	82	88	81	52	48	50	42	38
Iraq	20	11	13	6	7	2	2	0	0	4
Israel	61	66	92	67	64	48	48	39	38	38
Lebanon	25	23	28	25	33	21	19	15	15	18
Saudi Arabia	45	27	48	46	40	31	22	24	36	23
Turkey	51	62	80	93	74	65	82	91	134	161
West Asia, other	280	232	241	260	220	166	162	198	166	154
Pacific/Australasia, total	172	184	181	187	195	150	148	132	134	119
Australia	29	41	45	54	36	39	42	38	38	34
Indonesia	54	49	55	54	54	40	33	31	34	25
Pacific/Australasia, other	89	94	81	79	105	71	71	63	62	60
Africa, total	372	353	415	301	299	231	233	232	240	230
Egypt	55	40	41	30	30	25	24	13	20	28
Nigeria	57	43	54	39	28	15	27	26	19	17
Africa, other	260	270	320	232	241	191	182	193	201	185
Country unknown	105	109	56	56	123	445	373	237	133	65

See explanatory information, if any, and SOURCE at end of table.

Table 5. Non-U.S. citizens awarded doctorates in the sciences and in engineering, by country of citizenship, visa type, and year of doctorate: 1992-2001

Country/economy	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	Permanent visas, S&E									
Total foreign citizenship	1,383	1,641	3,021	3,509	3,009	2,281	2,019	1,652	1,414	1,263
North America, total	118	120	119	135	119	104	113	100	91	99
Canada	76	71	58	78	70	54	66	56	51	54
Caribbean	16	15	28	26	27	20	21	20	17	15
Central America	8	6	14	8	2	7	6	12	5	9
Mexico	18	28	19	23	20	23	20	12	18	21
South America, total	74	63	64	51	64	70	50	49	51	44
Argentina	17	17	13	9	17	20	6	9	12	9
Brazil	21	11	16	11	11	7	11	10	10	11
Chile	6	7	4	9	5	8	7	11	6	1
Colombia	9	5	13	8	10	6	5	4	9	4
South America, other	21	23	18	14	21	29	21	15	14	19
Europe, total	210	258	275	284	312	338	360	336	338	353
Belgium	8	8	4	7	8	8	3	6	5	6
England, United Kingdom	58	47	56	49	50	39	43	51	36	53
France	10	19	16	15	16	23	25	15	19	22
Germany	39	45	62	53	51	42	43	33	60	39
Europe, other	95	139	137	160	187	226	246	231	218	233
East Asia, total	486	663	2,001	2,487	1,937	1,238	1,077	744	568	439
Taiwan	172	155	178	165	136	148	103	78	66	47
China, People's Republic of	165	354	1,650	2,175	1,638	955	846	530	383	301
Hong Kong	28	20	20	15	18	15	14	11	8	6
Japan	18	20	30	19	23	24	22	27	35	21
Korea	83	91	99	87	93	80	71	79	60	51
Thailand	9	11	11	10	14	4	8	3	4	6
East Asia, other	11	12	13	16	15	12	13	16	12	7
West Asia, total	340	359	375	383	388	315	259	285	233	205
India	148	142	173	168	198	187	135	135	108	97
Iran	82	100	65	84	74	37	38	46	40	29
Iraq	8	4	7	5	4	1	3	3	1	2
Israel	15	22	41	21	17	17	17	16	8	5
Lebanon	6	11	12	11	11	6	7	9	5	5
Saudi Arabia	7	4	7	4	10	1	0	3	3	1
Turkey	20	18	15	19	23	21	17	22	27	32
West Asia, other	54	58	55	71	51	45	42	51	41	34
Pacific/Australasia, total	23	35	40	43	32	30	25	31	30	25
Australia	9	10	13	10	13	9	6	18	11	14
Indonesia	5	6	13	16	3	8	7	5	11	2
Pacific/Australasia, other	9	19	14	17	16	13	12	8	8	9
Africa, total	95	100	123	91	83	83	82	78	84	80
Egypt	9	9	12	12	11	12	12	9	17	6
Nigeria	34	30	33	32	17	7	15	20	11	7
Africa, other	52	61	78	47	55	64	55	49	56	67
Country unknown	37	43	24	35	74	103	53	29	19	18

See explanatory information, if any, and SOURCE at end of table.

Table 5. Non-U.S. citizens awarded doctorates in the sciences and in engineering, by country of citizenship, visa type, and year of doctorate: 1992-2001

Country/economy	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	Permanent visas, engineering									
Total foreign citizenship	411	469	838	956	793	593	479	402	352	296
North America, total	13	16	14	23	15	14	17	19	13	8
Canada	8	9	6	9	6	7	8	10	7	2
Caribbean	2	2	4	3	5	4	5	5	3	3
Central America	2	1	2	4	0	1	0	2	0	2
Mexico	1	4	2	7	4	2	4	2	3	1
South America, total	14	8	13	7	9	12	7	6	7	11
Argentina	4	2	1	1	3	5	0	0	1	2
Brazil	2	1	2	2	3	2	2	3	0	4
Chile	1	0	1	1	0	0	0	2	1	1
Colombia	2	1	4	1	1	2	1	0	3	0
South America, other	5	4	5	2	2	3	4	1	2	4
Europe, total	33	42	49	68	58	70	69	55	68	55
Belgium	2	2	1	1	1	3	0	1	1	2
England, United Kingdom	8	4	7	9	4	4	6	7	4	4
France	3	4	5	3	5	3	6	4	8	5
Germany	5	3	11	8	6	6	4	3	11	9
Europe, other	15	29	25	47	42	54	53	40	44	35
East Asia, total	163	221	576	696	517	317	253	191	156	124
Taiwan	80	73	89	76	77	57	39	38	27	18
China, People's Republic of	39	88	427	571	384	215	182	108	100	77
Hong Kong	10	10	7	5	9	4	4	5	1	4
Japan	3	2	5	2	2	3	0	1	3	1
Korea	25	43	42	34	36	36	20	33	23	21
Thailand	2	1	1	4	3	0	5	2	1	2
East Asia, other	4	4	5	4	6	2	3	4	1	1
West Asia, total	144	151	140	119	151	121	96	100	76	72
India	57	56	61	55	77	65	43	39	28	25
Iran	44	43	28	29	29	17	19	19	16	14
Iraq	2	2	5	3	0	1	2	3	1	1
Israel	5	6	6	0	0	2	2	2	0	1
Lebanon	4	6	5	3	8	2	5	7	1	3
Saudi Arabia	1	2	3	3	3	0	0	2	1	1
Turkey	10	6	6	7	12	15	4	11	13	13
West Asia, other	21	30	26	19	22	19	21	17	16	14
Pacific/Australasia, total	7	6	12	9	4	7	7	6	6	6
Australia	4	1	4	0	2	1	0	4	1	4
Indonesia	2	4	7	7	0	4	6	1	4	1
Pacific/Australasia, other	1	1	1	2	2	2	1	1	1	1
Africa, total	23	14	28	28	24	22	20	21	23	17
Egypt	3	3	4	9	4	5	8	6	11	3
Nigeria	6	3	2	10	5	1	2	5	2	3
Africa, other	14	8	22	9	15	16	10	10	10	11
Country unknown	14	11	6	6	15	30	10	4	3	3

See explanatory information, if any, and SOURCE at end of table.

Table 5. Non-U.S. citizens awarded doctorates in the sciences and in engineering, by country of citizenship, visa type, and year of doctorate: 1992-2001

Country/economy	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	Permanent visas, sciences									
Total foreign citizenship	972	1,172	2,183	2,553	2,216	1,688	1,540	1,250	1,062	967
North America, total	105	104	105	112	104	90	96	81	78	91
Canada	68	62	52	69	64	47	58	46	44	52
Caribbean	14	13	24	23	22	16	16	15	14	12
Central America	6	5	12	4	2	6	6	10	5	7
Mexico	17	24	17	16	16	21	16	10	15	20
South America, total	60	55	51	44	55	58	43	43	44	33
Argentina	13	15	12	8	14	15	6	9	11	7
Brazil	19	10	14	9	8	5	9	7	10	7
Chile	5	7	3	8	5	8	7	9	5	0
Colombia	7	4	9	7	9	4	4	4	6	4
South America, other	16	19	13	12	19	26	17	14	12	15
Europe, total	177	216	226	216	254	268	291	281	270	298
Belgium	6	6	3	6	7	5	3	5	4	4
England, United Kingdom	50	43	49	40	46	35	37	44	32	49
France	7	15	11	12	11	20	19	11	11	17
Germany	34	42	51	45	45	36	39	30	49	30
Europe, other	80	110	112	113	145	172	193	191	174	198
East Asia, total	323	442	1,425	1,791	1,420	921	824	553	412	315
Taiwan	92	82	89	89	59	91	64	40	39	29
China, People's Republic of	126	266	1,223	1,604	1,254	740	664	422	283	224
Hong Kong	18	10	13	10	9	11	10	6	7	2
Japan	15	18	25	17	21	21	22	26	32	20
Korea	58	48	57	53	57	44	51	46	37	30
Thailand	7	10	10	6	11	4	3	1	3	4
East Asia, other	7	8	8	12	9	10	10	12	11	6
West Asia, total	196	208	235	264	237	194	163	185	157	133
India	91	86	112	113	121	122	92	96	80	72
Iran	38	57	37	55	45	20	19	27	24	15
Iraq	6	2	2	2	4	0	1	0	0	1
Israel	10	16	35	21	17	15	15	14	8	4
Lebanon	2	5	7	8	3	4	2	2	4	2
Saudi Arabia	6	2	4	1	7	1	0	1	2	0
Turkey	10	12	9	12	11	6	13	11	14	19
West Asia, other	33	28	29	52	29	26	21	34	25	20
Pacific/Australasia, total	16	29	28	34	28	23	18	25	24	19
Australia	5	9	9	10	11	8	6	14	10	10
Indonesia	3	2	6	9	3	4	1	4	7	1
Pacific/Australasia, other	8	18	13	15	14	11	11	7	7	8
Africa, total	72	86	95	63	59	61	62	57	61	53
Egypt	6	6	8	3	7	7	4	3	6	3
Nigeria	28	27	31	22	12	6	13	15	9	4
Africa, other	38	53	56	38	40	48	45	39	46	56
Country unknown	23	32	18	29	59	73	43	25	16	15

See explanatory information, if any, and SOURCE at end of table.

Table 5. Non-U.S. citizens awarded doctorates in the sciences and in engineering, by country of citizenship, visa type, and year of doctorate: 1992-2001

Country/economy	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	Temporary visas, S&E									
Total foreign citizenship	8,116	8,138	7,536	7,007	7,835	7,509	7,776	7,240	7,645	7,925
North America, total	397	386	428	371	411	359	434	433	513	494
Canada	228	214	217	196	206	196	212	226	238	251
Caribbean	28	23	33	35	24	26	40	33	35	24
Central America	44	38	55	35	43	27	37	27	50	35
Mexico	97	111	123	105	138	110	145	147	190	184
South America, total	320	331	344	308	391	318	361	372	383	369
Argentina	69	36	43	40	49	47	64	45	64	60
Brazil	112	140	141	126	194	138	141	147	116	130
Chile	42	45	38	29	31	21	17	22	36	24
Colombia	28	30	35	37	32	32	21	41	45	55
South America, other	69	80	87	76	85	80	118	117	122	100
Europe, total	740	846	875	970	947	939	1,119	1,125	1,156	1,287
Belgium	34	16	17	25	17	9	14	15	15	18
England, United Kingdom	79	107	72	83	67	51	81	90	63	85
France	67	74	80	68	52	50	51	64	63	62
Germany	85	119	134	155	119	136	162	145	169	181
Europe, other	475	530	572	639	692	693	811	811	846	941
East Asia, total	4,379	4,347	3,483	2,999	3,662	3,324	3,456	3,325	3,679	3,889
Taiwan	1,070	1,058	1,123	1,075	1,016	876	788	656	603	491
China, People's Republic of	1,904	1,886	892	587	1,323	1,337	1,569	1,651	1,973	2,104
Hong Kong	81	89	75	75	92	69	69	42	37	40
Japan	114	112	152	136	144	125	130	129	162	129
Korea	1,044	1,032	1,051	918	886	768	723	661	685	811
Thailand	78	66	86	103	105	83	107	127	144	227
East Asia, other	88	104	104	105	96	66	70	59	75	87
West Asia, total	1,551	1,544	1,702	1,798	1,757	1,600	1,491	1,311	1,329	1,420
India	713	791	892	1,039	1,064	1,024	947	755	714	711
Iran	118	103	109	89	73	75	53	46	40	70
Iraq	26	13	15	9	5	6	2	2	1	4
Israel	72	67	68	65	67	42	41	31	36	44
Lebanon	56	39	61	45	43	24	30	15	22	23
Saudi Arabia	69	42	69	67	64	60	39	45	50	51
Turkey	112	118	129	147	124	139	144	165	240	272
West Asia, other	385	371	359	337	317	230	235	252	226	245
Pacific/Australasia, total	197	192	191	188	201	166	167	125	148	132
Australia	31	37	43	51	29	38	40	28	31	30
Indonesia	73	72	70	67	66	54	53	39	50	45
Pacific/Australasia, other	93	83	78	70	106	74	74	58	67	57
Africa, total	415	374	460	332	359	253	257	249	265	252
Egypt	92	79	92	66	78	58	72	52	63	68
Nigeria	34	25	27	21	22	16	19	14	12	13
Africa, other	289	270	341	245	259	179	166	183	190	171
Country unknown	117	118	53	41	107	550	491	300	172	82

See explanatory information, if any, and SOURCE at end of table.

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Table 5. Non-U.S. citizens awarded doctorates in the sciences and in engineering, by country of citizenship, visa type, and year of doctorate: 1992-2001

Country/economy	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	Temporary visas, engineering									
Total foreign citizenship	2,750	2,792	2,654	2,527	2,734	2,555	2,582	2,194	2,446	2,772
North America, total	60	66	78	59	81	67	75	91	104	99
Canada	38	33	30	32	39	37	27	41	42	43
Caribbean	3	2	10	4	3	8	10	8	5	5
Central America	4	8	8	4	6	1	6	3	6	7
Mexico	15	23	28	19	33	21	32	39	51	44
South America, total	73	89	98	81	108	80	90	86	100	84
Argentina	10	8	6	6	5	9	13	9	10	12
Brazil	29	45	47	44	62	41	45	37	35	32
Chile	9	5	7	7	8	1	1	4	8	6
Colombia	7	7	8	9	6	2	6	7	12	12
South America, other	18	24	30	15	27	27	25	29	35	22
Europe, total	169	202	208	229	177	163	225	219	227	279
Belgium	8	5	6	11	3	1	3	0	4	6
England, United Kingdom	9	14	7	11	6	8	6	7	7	7
France	22	28	27	21	20	8	17	19	15	19
Germany	13	20	18	29	10	21	25	33	35	39
Europe, other	117	135	150	157	138	125	174	160	166	208
East Asia, total	1,538	1,512	1,311	1,173	1,338	1,158	1,197	1,060	1,246	1,506
Taiwan	557	519	581	540	498	377	339	264	259	223
China, People's Republic of	477	457	230	208	424	421	486	473	611	802
Hong Kong	27	22	7	15	22	9	22	6	11	11
Japan	22	21	41	28	30	34	20	29	20	22
Korea	412	441	387	310	257	263	262	231	259	313
Thailand	19	17	33	34	40	38	46	49	57	112
East Asia, other	24	35	32	38	37	16	22	8	29	23
West Asia, total	719	738	768	842	834	787	709	558	590	655
India	348	392	419	517	544	522	475	330	329	321
Iran	66	52	64	56	37	43	24	23	22	47
Iraq	12	4	4	5	2	4	1	2	1	1
Israel	21	17	11	19	20	11	10	6	6	10
Lebanon	33	21	40	28	13	7	13	2	11	7
Saudi Arabia	30	17	25	22	31	30	17	22	16	28
Turkey	71	68	58	66	61	80	75	85	120	130
West Asia, other	138	167	147	129	126	90	94	88	85	111
Pacific/Australasia, total	41	37	38	35	34	39	39	18	38	32
Australia	7	5	7	7	4	7	4	4	3	6
Indonesia	22	25	21	22	15	18	21	12	23	21
Pacific/Australasia, other	12	7	10	6	15	14	14	2	12	5
Africa, total	115	107	140	94	119	83	86	74	86	85
Egypt	43	45	59	39	55	40	52	42	49	43
Nigeria	5	9	4	4	6	7	5	3	2	0
Africa, other	67	53	77	51	58	36	29	29	35	42
Country unknown	35	41	15	14	43	178	161	88	55	32

See explanatory information, if any, and SOURCE at end of table.

Table 5. Non-U.S. citizens awarded doctorates in the sciences and in engineering, by country of citizenship, visa type, and year of doctorate: 1992-2001

Country/economy	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
	Temporary visas, sciences									
Total foreign citizenship	5,366	5,346	4,882	4,480	5,101	4,954	5,194	5,046	5,199	5,153
North America, total	337	320	352	312	330	292	359	342	409	395
Canada	190	181	187	164	167	159	185	185	196	208
Caribbean	25	21	23	31	21	18	30	25	30	19
Central America	40	30	47	31	37	26	31	24	44	28
Mexico	82	88	95	86	105	89	113	108	139	140
South America, total	247	242	246	227	283	238	271	286	283	285
Argentina	59	28	37	34	44	38	51	36	54	48
Brazil	83	95	94	82	132	97	96	110	81	98
Chile	33	40	31	22	23	20	16	18	28	18
Colombia	21	23	27	28	26	30	15	34	33	43
South America, other	51	56	57	61	58	53	93	88	87	78
Europe, total	571	644	667	741	770	776	894	906	929	1,008
Belgium	26	11	11	14	14	8	11	15	11	12
England, United Kingdom	70	93	65	72	61	43	75	83	56	78
France	45	46	53	47	32	42	34	45	48	43
Germany	72	99	116	126	109	115	137	112	134	142
Europe, other	358	395	422	482	554	568	637	651	680	733
East Asia, total	2,841	2,835	2,172	1,826	2,324	2,166	2,259	2,265	2,433	2,383
Taiwan	513	539	542	535	518	499	449	392	344	268
China, People's Republic of	1,427	1,429	662	379	899	916	1,083	1,178	1,362	1,302
Hong Kong	54	67	68	60	70	60	47	36	26	29
Japan	92	91	111	108	114	91	110	100	142	107
Korea	632	591	664	608	599	505	461	430	426	498
Thailand	59	49	53	69	65	45	61	78	87	115
East Asia, other	64	69	72	67	59	50	48	51	46	64
West Asia, total	832	806	934	956	923	813	782	753	739	785
India	365	399	473	522	520	502	472	425	385	390
Iran	52	51	45	33	36	32	29	23	18	23
Iraq	14	9	11	4	3	2	1	0	0	3
Israel	51	50	57	46	47	31	31	25	30	34
Lebanon	23	18	21	17	30	17	17	13	11	16
Saudi Arabia	39	25	44	45	33	30	22	23	34	23
Turkey	41	50	71	81	83	59	69	80	120	142
West Asia, other	247	204	212	208	191	140	141	164	141	134
Pacific/Australasia, total	156	155	153	153	167	127	128	107	110	100
Australia	24	32	36	44	25	31	36	24	28	24
Indonesia	51	47	49	45	51	36	32	27	27	24
Pacific/Australasia, other	81	76	68	64	91	60	60	56	55	52
Africa, total	300	267	320	238	240	170	171	175	179	167
Egypt	49	34	33	27	23	18	20	10	14	25
Nigeria	29	16	23	17	16	9	14	11	10	13
Africa, other	222	217	264	194	201	143	137	154	155	129
Country unknown	82	77	38	27	64	372	330	212	117	50

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates

Table 6. Doctorates awarded, by State, institution, and major field: 2001

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

State and institution	S&E rank*	Total S&E	Engineering						Physical sciences			
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering	Total	Physics & astronomy	Chemistry	Other physical sciences
Total, all institutions		25,509	5,502	726	593	1,577	953	1,653	3,389	1,379	1,979	31
Alabama, total	27	287	61	8	4	13	10	26	34	13	21	0
Auburn University	80	104	25	6	1	5	5	8	8	1	7	0
United States Sports Academy	346	0	0	0	0	0	0	0	0	0	0	0
University of Alabama	109	65	10	1	1	1	2	5	13	5	8	0
University of Alabama Birmingham	95	85	10	1	1	0	0	8	4	0	4	0
University of Alabama Huntsville	185	29	16	0	1	7	3	5	9	7	2	0
University of South Alabama	307	4	0	0	0	0	0	0	0	0	0	0
Alaska, total	51	26	2	0	1	0	1	0	3	2	1	0
University of Alaska Fairbanks	192	26	2	0	1	0	1	0	3	2	1	0
Arizona, total	21	403	101	9	11	29	10	42	57	32	25	0
Arizona State University Main	59	147	61	6	6	22	4	23	15	5	10	0
Northern Arizona University	232	17	0	0	0	0	0	0	0	0	0	0
University of Arizona	28	239	40	3	5	7	6	19	42	27	15	0
Arkansas, total	43	62	5	2	2	1	0	0	5	4	1	0
U of Arkansas	146	44	5	2	2	1	0	0	5	4	1	0
U of Arkansas Little Rock	333	1	0	0	0	0	0	0	0	0	0	0
U of Arkansas for Med Sciences	232	17	0	0	0	0	0	0	0	0	0	0
California, total	1	3,334	718	67	60	253	130	208	458	207	247	4
Azusa Pacific University	346	0	0	0	0	0	0	0	0	0	0	0
Biola University	287	7	0	0	0	0	0	0	0	0	0	0
CA Inst Integral Studies	176	31	0	0	0	0	0	0	0	0	0	0
CA Inst Technology	51	159	64	7	5	15	7	30	57	26	30	1
CA Sch Prof Psych Berkeley	132	51	0	0	0	0	0	0	0	0	0	0
CA Sch Prof Psych Fresno	163	37	0	0	0	0	0	0	0	0	0	0
CA Sch Prof Psych Los Angeles	174	33	0	0	0	0	0	0	0	0	0	0
CA Sch Prof Psych San Diego	136	49	0	0	0	0	0	0	0	0	0	0
Claremont Graduate University	157	41	0	0	0	0	0	0	0	0	0	0
Fielding Institute, The	117	57	0	0	0	0	0	0	0	0	0	0
Fuller Theological Seminary CA	226	18	0	0	0	0	0	0	0	0	0	0
Graduate Theological Union	326	2	0	0	0	0	0	0	0	0	0	0
Loma Linda University	204	23	0	0	0	0	0	0	0	0	0	0
Loma Linda U La Sierra Campus	346	0	0	0	0	0	0	0	0	0	0	0
Naval Postgraduate School	275	9	4	0	0	3	0	1	1	1	0	0
Pacific Grad School of Psych	158	40	0	0	0	0	0	0	0	0	0	0
Pepperdine University Malibu	346	0	0	0	0	0	0	0	0	0	0	0
Rand Grad Sch of Policy Studies	307	4	0	0	0	0	0	0	0	0	0	0
San Diego State University	248	14	0	0	0	0	0	0	2	1	1	0
Santa Clara University	333	1	1	0	0	1	0	0	0	0	0	0
Saybrook Institute CA	214	21	0	0	0	0	0	0	0	0	0	0
School of Theology at Claremont	346	0	0	0	0	0	0	0	0	0	0	0
Stanford University	4	440	168	6	8	59	40	55	61	37	24	0
United States International U	264	11	0	0	0	0	0	0	0	0	0	0
U of California Berkeley	1	538	150	14	20	39	48	29	99	42	57	0
U of California Davis	19	275	60	10	9	8	9	24	35	18	17	0
U of California Irvine	60	141	24	2	4	8	3	7	26	4	21	1
U of California Los Angeles	8	405	83	13	6	42	12	10	53	26	26	1
U of California Riverside	102	72	1	0	0	1	0	0	21	8	13	0
U of California San Diego	33	219	29	0	2	11	1	15	24	11	12	1
U of California San Francisco	100	75	6	0	0	0	0	6	10	0	10	0
U of California Santa Barbara	37	192	58	8	0	25	9	16	27	15	12	0
U of California Santa Cruz	97	83	2	0	0	1	0	1	19	11	8	0

See explanatory information, if any, and SOURCE at end of table.

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Table 6. Doctorates awarded, by State, institution, and major field: 2001

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

State and institution	Earth, atmos., & ocean sciences	Mathematics	Computer sciences	Biological & agricultural sciences			Psychology	Social sciences	Non-S&E, total	Grand total, all fields
				Total	Biological	Agricultural				
Total, all institutions	749	1,006	826	6,526	5,678	848	3,433	4,078	15,235	40,744
Alabama, total	6	13	6	108	92	16	33	26	195	482
Auburn University	0	11	3	32	16	16	11	14	49	153
United States Sports Academy	0	0	0	0	0	0	0	0	8	8
University of Alabama	3	2	0	11	11	0	15	11	99	164
University of Alabama Birmingham	0	0	2	61	61	0	7	1	35	120
University of Alabama Huntsville	2	0	1	1	1	0	0	0	0	29
University of South Alabama	1	0	0	3	3	0	0	0	4	8
Alaska, total	7	0	0	13	12	1	0	1	1	27
University of Alaska Fairbanks	7	0	0	13	12	1	0	1	1	27
Arizona, total	37	12	2	89	70	19	42	63	272	675
Arizona State University Main	5	3	1	16	16	0	22	24	127	274
Northern Arizona University	0	0	0	12	6	6	0	5	23	40
University of Arizona	32	9	1	61	48	13	20	34	122	361
Arkansas, total	0	2	0	37	24	13	11	2	76	138
U of Arkansas	0	2	0	19	6	13	11	2	46	90
U of Arkansas Little Rock	0	0	0	1	1	0	0	0	27	28
U of Arkansas for Med Sciences	0	0	0	17	17	0	0	0	3	20
California, total	111	121	125	702	670	32	551	548	1,467	4,801
Azusa Pacific University	0	0	0	0	0	0	0	0	3	3
Biola University	0	0	0	0	0	0	7	0	13	20
CA Inst Integral Studies	0	0	0	0	0	0	15	16	6	37
CA Inst Technology	12	4	4	12	12	0	0	6	0	159
CA Sch Prof Psych Berkeley	0	0	0	0	0	0	51	0	0	51
CA Sch Prof Psych Fresno	0	0	0	0	0	0	37	0	0	37
CA Sch Prof Psych Los Angeles	0	0	0	0	0	0	33	0	0	33
CA Sch Prof Psych San Diego	0	0	0	0	0	0	49	0	0	49
Claremont Graduate University	0	2	1	4	4	0	16	18	56	97
Fielding Institute, The	0	0	0	0	0	0	47	10	54	111
Fuller Theological Seminary CA	0	0	0	0	0	0	17	1	35	53
Graduate Theological Union	0	0	0	0	0	0	1	1	22	24
Loma Linda University	0	0	0	15	15	0	8	0	7	30
Loma Linda U La Sierra Campus	0	0	0	0	0	0	0	0	5	5
Naval Postgraduate School	2	0	2	0	0	0	0	0	0	9
Pacific Grad School of Psych	0	0	0	0	0	0	40	0	0	40
Pepperdine University Malibu	0	0	0	0	0	0	0	0	32	32
Rand Grad Sch of Policy Studies	0	0	0	0	0	0	0	4	0	4
San Diego State University	0	0	0	4	4	0	7	1	8	22
Santa Clara University	0	0	0	0	0	0	0	0	0	1
Saybrook Institute CA	0	0	0	0	0	0	21	0	5	26
School of Theology at Claremont	0	0	0	0	0	0	0	0	8	8
Stanford University	20	16	21	70	70	0	17	67	107	547
United States International U	0	0	0	0	0	0	10	1	11	22
U of California Berkeley	8	40	21	101	96	5	18	101	213	751
U of California Davis	4	11	7	124	102	22	7	27	57	332
U of California Irvine	5	4	12	30	30	0	12	28	46	187
U of California Los Angeles	15	15	21	96	96	0	36	86	204	609
U of California Riverside	1	0	1	26	21	5	9	13	22	94
U of California San Diego	18	11	10	80	80	0	15	32	48	267
U of California San Francisco	0	0	1	56	56	0	0	2	17	92
U of California Santa Barbara	10	5	7	23	23	0	21	41	67	259
U of California Santa Cruz	14	3	5	15	15	0	9	16	21	104

See explanatory information, if any, and SOURCE at end of table.

Table 6. Doctorates awarded, by State, institution, and major field: 2001

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

State and institution	S&E rank*	Total S&E	Engineering						Physical sciences			
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering	Total	Physics & astronomy	Chemistry	Other physical sciences
California, continued:												
University of La Verne	346	0	0	0	0	0	0	0	0	0	0	0
University of the Pacific	307	4	0	0	0	0	0	0	3	0	3	0
University of San Diego	346	0	0	0	0	0	0	0	0	0	0	0
University of San Francisco	275	9	0	0	0	0	0	0	0	0	0	0
University of Southern CA	22	256	68	7	6	40	1	14	20	7	13	0
Wright Institute, All Campuses	232	17	0	0	0	0	0	0	0	0	0	0
Colorado, total	17	485	123	25	31	27	13	27	50	22	27	1
Colorado School of Mines	152	42	29	11	1	0	0	17	5	4	0	1
Colorado State University	85	133	20	2	9	4	4	1	16	3	13	0
University of Colorado at Boulder	32	223	69	12	19	20	9	9	28	15	13	0
University of Colorado at Colorado Springs	320	3	3	0	0	3	0	0	0	0	0	0
University of Colorado at Denver	294	6	2	0	2	0	0	0	0	0	0	0
University of Colorado Health Science Center	176	31	0	0	0	0	0	0	0	0	0	0
University of Denver	171	34	0	0	0	0	0	0	0	0	0	0
University of Northern Colorado	253	13	0	0	0	0	0	0	1	0	1	0
Connecticut, total	24	370	34	9	4	10	5	6	59	22	37	0
University of Connecticut	52	157	23	8	4	7	0	4	24	5	19	0
University of New Haven	346	0	0	0	0	0	0	0	0	0	0	0
Wesleyan University	248	14	0	0	0	0	0	0	2	0	2	0
Yale University	34	199	11	1	0	3	5	2	33	17	16	0
Delaware, total	38	128	38	20	7	6	2	3	14	4	9	1
University of Delaware	69	128	38	20	7	6	2	3	14	4	9	1
Wilmington College	346	0	0	0	0	0	0	0	0	0	0	0
District of Columbia, total	26	291	41	0	2	11	6	22	30	11	19	0
American University	124	52	1	0	0	0	0	1	8	3	5	0
Catholic University of America	204	23	7	0	1	2	3	1	3	3	0	0
Gallaudet University	287	7	0	0	0	0	0	0	0	0	0	0
George Washington University	81	103	29	0	1	6	2	20	5	2	3	0
Georgetown University	124	52	0	0	0	0	0	0	6	0	6	0
Howard University	119	54	4	0	0	3	1	0	8	3	5	0
Florida, total	9	781	180	13	19	55	27	66	92	39	53	0
Barry University	346	0	0	0	0	0	0	0	0	0	0	0
FL Agricultural and Mechanical U	300	5	2	1	0	0	1	0	1	0	1	0
Florida Atlantic University	199	24	11	0	0	10	1	0	1	1	0	0
Florida Institute of Technology	248	14	5	0	0	2	1	2	1	0	1	0
Florida International University	140	47	5	0	3	1	1	0	0	0	0	0
Florida State University	76	107	4	0	0	1	2	1	19	9	10	0
Nova Southeastern University	124	52	0	0	0	0	0	0	0	0	0	0
University of Central Florida	119	54	36	0	1	16	6	13	6	6	0	0
University of Florida	16	316	91	10	11	12	11	41	50	20	30	0
University of Miami	113	62	11	0	1	4	4	2	7	3	4	0
University of Sarasota	300	5	0	0	0	0	0	0	0	0	0	0
University of South Florida	87	95	15	2	3	3	0	7	7	0	7	0
Georgia, total	15	608	184	21	20	55	37	51	71	22	48	1
Clark Atlanta University	264	11	0	0	0	0	0	0	0	0	0	0
Emory University	82	100	0	0	0	0	0	0	16	0	16	0
Georgia Inst of Tech	25	245	178	20	19	55	37	47	25	11	14	0
Georgia Southern University	346	0	0	0	0	0	0	0	0	0	0	0
Georgia State University	117	57	0	0	0	0	0	0	5	2	3	0
Inst of Paper Science & Tech	282	8	2	1	0	0	0	1	0	0	0	0
Medical College of Georgia	275	9	0	0	0	0	0	0	0	0	0	0
Mercer University	333	1	0	0	0	0	0	0	1	0	1	0
University of Georgia	44	177	4	0	1	0	0	3	24	9	14	1
Hawaii, total	39	107	8	1	1	3	2	1	10	9	1	0
University of Hawaii at Manoa	76	107	8	1	1	3	2	1	10	9	1	0
Idaho, total	45	51	11	1	0	1	2	7	2	1	1	0
Idaho State University	238	16	1	0	0	0	0	1	0	0	0	0
University of Idaho	168	35	10	1	0	1	2	6	2	1	1	0

See explanatory information, if any, and SOURCE at end of table.

Table 6. Doctorates awarded, by State, institution, and major field: 2001

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

State and institution	Earth, atmos., & ocean sciences	Mathematics	Computer sciences	Biological & agricultural sciences			Psychology	Social sciences	Non-S&E, total	Grand total, all fields
				Total	Biological	Agricultural				
California, continued:										
University of La Verne	0	0	0	0	0	0	0	0	26	26
University of the Pacific	0	0	0	1	1	0	0	0	15	19
University of San Diego	0	0	0	0	0	0	0	0	19	19
University of San Francisco	0	0	0	0	0	0	9	0	67	76
University of Southern CA	2	10	12	45	45	0	22	77	273	529
Wright Institute, All Campuses	0	0	0	0	0	0	17	0	0	17
Colorado, total	29	25	14	121	102	19	52	71	209	694
Colorado School of Mines	6	1	0	0	0	0	0	1	0	42
Colorado State University	5	7	4	52	34	18	17	12	24	157
University of Colorado at Boulder	17	11	10	33	32	1	14	41	64	287
University of Colorado at Colorado Springs	0	0	0	0	0	0	0	0	0	3
University of Colorado at Denver	0	2	0	0	0	0	0	2	22	28
University of Colorado Health Science Center	0	0	0	31	31	0	0	0	9	40
University of Denver	1	0	0	3	3	0	17	13	34	68
University of Northern Colorado	0	4	0	2	2	0	4	2	56	69
Connecticut, total	6	16	6	119	108	11	38	92	199	580
University of Connecticut	2	9	2	39	35	4	21	37	80	237
University of New Haven	0	0	0	0	0	0	0	0	4	4
Wesleyan University	0	2	0	10	10	0	0	0	3	17
Yale University	4	5	4	70	63	7	17	55	112	311
Delaware, total	13	3	6	19	12	7	14	21	63	191
University of Delaware	13	3	6	19	12	7	14	21	34	162
Wilmington College	0	0	0	0	0	0	0	0	29	29
District of Columbia, total	1	12	17	54	54	0	52	84	203	494
American University	0	3	0	0	0	0	12	28	15	67
Catholic University of America	0	0	0	2	2	0	6	5	66	89
Gallaudet University	0	0	0	0	0	0	7	0	5	12
George Washington University	1	7	16	18	18	0	18	11	71	174
Georgetown University	0	0	1	21	21	0	0	24	18	70
Howard University	0	2	0	13	13	0	11	16	28	82
Florida, total	31	32	45	154	124	30	153	94	946	1,727
Barry University	0	0	0	0	0	0	0	0	6	6
FL Agricultural and Mechanical U	0	0	0	2	2	0	0	0	3	8
Florida Atlantic University	0	0	1	3	3	0	2	6	10	34
Florida Institute of Technology	2	6	0	0	0	0	0	0	3	17
Florida International University	4	0	4	9	9	0	11	14	22	89
Florida State University	11	5	5	16	15	1	26	21	151	258
Nova Southeastern University	0	0	23	0	0	0	27	2	417	469
University of Central Florida	0	2	5	0	0	0	5	0	35	89
University of Florida	2	13	4	84	56	28	33	39	101	417
University of Miami	5	0	0	15	15	0	17	7	29	91
University of Sarasota	0	0	0	0	0	0	5	0	113	118
University of South Florida	7	6	3	25	24	1	27	5	56	151
Georgia, total	7	25	18	156	134	22	77	70	380	968
Clark Atlanta University	0	0	0	1	1	0	2	8	18	29
Emory University	0	7	0	51	51	0	10	18	64	164
Georgia Inst of Tech	1	9	15	6	6	0	8	3	10	255
Georgia Southern University	0	0	0	0	0	0	0	0	12	12
Georgia State University	0	0	2	13	13	0	22	15	77	134
Inst of Paper Science & Tech	0	0	0	6	0	6	0	0	0	8
Medical College of Georgia	0	0	0	9	9	0	0	0	4	13
Mercer University	0	0	0	0	0	0	0	0	0	1
University of Georgia	6	9	1	70	54	16	35	28	175	352
Hawaii, total	6	1	1	29	24	5	11	41	37	144
University of Hawaii at Manoa	6	1	1	29	24	5	11	41	37	144
Idaho, total	1	2	1	26	16	10	4	4	35	88
Idaho State University	0	2	0	6	6	0	4	3	7	23
University of Idaho	1	0	1	20	10	10	0	1	28	63

See explanatory information, if any, and SOURCE at end of table.

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Table 6. Doctorates awarded, by State, institution, and major field: 2001

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

State and institution	S&E rank*	Total S&E	Engineering						Physical sciences			
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering	Total	Physics & astronomy	Chemistry	Other physical sciences
Illinois, total	5	1,323	305	28	52	82	62	81	208	76	131	1
De Paul University	269	10	0	0	0	0	0	0	0	0	0	0
Finch U Hlth Sci/Chgo Med Sch	199	24	0	0	0	0	0	0	0	0	0	0
Illinois Institute Technology	134	50	20	5	9	1	3	2	6	3	3	0
Illinois State University	307	4	0	0	0	0	0	0	0	0	0	0
Inst for Clinical Social Work	346	0	0	0	0	0	0	0	0	0	0	0
Loyola University of Chicago	124	52	0	0	0	0	0	0	8	0	8	0
Lutheran Sch Theology at Chicago	346	0	0	0	0	0	0	0	0	0	0	0
Northern Illinois University	214	21	0	0	0	0	0	0	3	0	3	0
Northwestern University	20	261	98	11	12	19	17	39	28	5	23	0
Roosevelt University	320	3	0	0	0	0	0	0	0	0	0	0
Rush University	248	14	0	0	0	0	0	0	2	2	0	0
Southern Illinois U Carbondale	140	47	2	0	0	0	0	2	2	0	2	0
Southern Illinois U Edwardsville	346	0	0	0	0	0	0	0	0	0	0	0
University of Chicago	29	233	0	0	0	0	0	0	44	24	19	1
U of Illinois Chicago	69	128	25	3	2	5	5	10	28	3	25	0
U of Illinois Urbana-Champaign	2	476	160	9	29	57	37	28	87	39	48	0
Indiana, total	11	667	160	22	25	49	22	42	107	29	78	0
Ball State University	244	15	0	0	0	0	0	0	0	0	0	0
Indiana State University	226	18	0	0	0	0	0	0	0	0	0	0
Indiana U Bloomington	42	179	0	0	0	0	0	0	25	9	16	0
Indiana U Purdue U Indianapolis	346	0	0	0	0	0	0	0	0	0	0	0
Purdue University	12	360	140	16	24	41	21	38	61	11	50	0
University of Notre Dame	87	95	20	6	1	8	1	4	21	9	12	0
Iowa, total	23	376	86	9	11	22	19	25	49	11	38	0
Drake University	346	0	0	0	0	0	0	0	0	0	0	0
Iowa State University	36	197	53	9	5	20	10	9	33	8	25	0
Maharishi U of Management	333	1	0	0	0	0	0	0	0	0	0	0
University of Iowa	47	168	23	0	6	2	9	6	16	3	13	0
University of Northern Iowa	269	10	10	0	0	0	0	10	0	0	0	0
Kansas, total	28	264	49	5	11	13	12	8	39	9	30	0
Kansas State University	73	110	22	1	7	5	5	4	12	5	7	0
University of Kansas	67	131	15	4	4	1	5	1	25	4	21	0
Wichita State University	204	23	12	0	0	7	2	3	2	0	2	0
Kentucky, total	33	172	15	4	1	4	1	5	14	5	9	0
Southern Baptist Theological Sem	346	0	0	0	0	0	0	0	0	0	0	0
Spalding University	346	0	0	0	0	0	0	0	0	0	0	0
University of Kentucky	63	135	11	4	1	2	1	3	12	5	7	0
University of Louisville	163	37	4	0	0	2	0	2	2	0	2	0
Louisiana, total	25	334	47	9	5	8	6	19	57	15	41	1
Grambling State University	346	0	0	0	0	0	0	0	0	0	0	0
LA St U & A&M College	49	165	23	7	2	1	3	10	40	9	30	1
LA St U Medical Center	253	13	0	0	0	0	0	0	0	0	0	0
LA St U Shreveport	226	18	0	0	0	0	0	0	0	0	0	0
Louisiana Tech University	238	16	8	0	2	0	1	5	1	0	1	0
New Orleans Baptist Theol Sem	307	4	0	0	0	0	0	0	0	0	0	0
Southern U A&M Col Baton Rouge	307	4	0	0	0	0	0	0	0	0	0	0
Tulane University	107	67	11	2	1	3	2	3	12	5	7	0
Univ of Louisiana at Lafayette	204	23	2	0	0	2	0	0	0	0	0	0
Univ of Louisiana at Monroe	307	4	0	0	0	0	0	0	1	0	1	0
University of New Orleans	221	20	3	0	0	2	0	1	3	1	2	0
Maine, total	50	30	6	4	1	0	0	1	6	3	3	0
University of Maine	182	30	6	4	1	0	0	1	6	3	3	0

See explanatory information, if any, and SOURCE at end of table.

Table 6. Doctorates awarded, by State, institution, and major field: 2001

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

State and institution	Earth, atmos., & ocean sciences	Mathematics	Computer sciences	Biological & agricultural sciences			Psychology	Social sciences	Non-S&E, total	Grand total, all fields
				Total	Biological	Agricultural				
Illinois, total	13	63	45	291	258	33	165	233	764	2,087
De Paul University	0	0	0	0	0	0	10	0	2	12
Finch U Hlth Sci/Chgo Med Sch	0	0	0	11	11	0	13	0	0	24
Illinois Institute Technology	0	0	13	3	3	0	8	0	7	57
Illinois State University	0	0	0	2	2	0	2	0	26	30
Inst for Clinical Social Work	0	0	0	0	0	0	0	0	6	6
Loyola University of Chicago	0	0	0	16	16	0	22	6	66	118
Lutheran Sch Theology at Chicago	0	0	0	0	0	0	0	0	1	1
Northern Illinois University	0	5	0	0	0	0	8	5	72	93
Northwestern University	2	11	5	54	54	0	23	40	89	350
Roosevelt University	0	0	0	0	0	0	3	0	8	11
Rush University	0	0	0	12	12	0	0	0	7	21
Southern Illinois U Carbondale	0	0	0	14	13	1	17	12	73	120
Southern Illinois U Edwardsville	0	0	0	0	0	0	0	0	3	3
University of Chicago	6	18	0	59	59	0	9	97	137	370
U of Illinois Chicago	1	6	5	33	33	0	13	17	70	198
U of Illinois Urbana-Champaign	4	23	22	87	55	32	37	56	197	673
Indiana, total	16	24	14	148	119	29	77	121	454	1,121
Ball State University	0	0	0	0	0	0	11	4	28	43
Indiana State University	0	0	0	4	4	0	11	3	26	44
Indiana U Bloomington	11	7	4	54	54	0	23	55	251	430
Indiana U Purdue U Indianapolis	0	0	0	0	0	0	0	0	4	4
Purdue University	3	14	9	73	44	29	23	37	109	469
University of Notre Dame	2	3	1	17	17	0	9	22	36	131
Iowa, total	5	14	8	110	90	20	45	59	212	588
Drake University	0	0	0	0	0	0	0	0	9	9
Iowa State University	2	5	2	56	36	20	24	22	35	232
Maharishi U of Management	0	0	0	0	0	0	1	0	0	1
University of Iowa	3	9	6	54	54	0	20	37	166	334
University of Northern Iowa	0	0	0	0	0	0	0	0	2	12
Kansas, total	2	13	1	71	41	30	44	45	161	425
Kansas State University	0	7	0	47	17	30	6	16	35	145
University of Kansas	2	4	1	24	24	0	31	29	117	248
Wichita State University	0	2	0	0	0	0	7	0	9	32
Kentucky, total	0	12	1	65	45	20	30	35	160	332
Southern Baptist Theological Sem	0	0	0	0	0	0	0	0	41	41
Spalding University	0	0	0	0	0	0	0	0	7	7
University of Kentucky	0	12	1	53	34	19	15	31	84	219
University of Louisville	0	0	0	12	11	1	15	4	28	65
Louisiana, total	14	15	15	102	82	20	37	47	243	577
Grambling State University	0	0	0	0	0	0	0	0	6	6
LA St U & A&M College	11	8	6	38	18	20	19	20	98	263
LA St U Medical Center	0	0	0	13	13	0	0	0	7	20
LA St U Shreveport	0	0	0	18	18	0	0	0	0	18
Louisiana Tech University	0	4	0	0	0	0	3	0	12	28
New Orleans Baptist Theol Sem	0	0	0	0	0	0	4	0	20	24
Southern U A&M Col Baton Rouge	0	0	0	0	0	0	0	4	0	4
Tulane University	1	0	2	22	22	0	5	14	52	119
Univ of Louisiana at Lafayette	1	3	7	10	10	0	0	0	17	40
Univ of Louisiana at Monroe	0	0	0	1	1	0	2	0	6	10
University of New Orleans	1	0	0	0	0	0	4	9	25	45
Maine, total	1	0	3	11	4	7	3	0	11	41
University of Maine	1	0	3	11	4	7	3	0	11	41

See explanatory information, if any, and SOURCE at end of table.

Table 6. Doctorates awarded, by State, institution, and major field: 2001

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

State and institution	S&E rank*	Total S&E	Engineering						Physical sciences			
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering	Total	Physics & astronomy	Chemistry	Other physical sciences
Maryland, total	12	664	152	26	13	46	29	38	63	41	21	1
Johns Hopkins University	27	244	45	11	6	8	5	15	15	7	8	0
Loyola College	300	5	0	0	0	0	0	0	0	0	0	0
Morgan State University	346	0	0	0	0	0	0	0	0	0	0	0
Peabody Inst of Johns Hopkins U	346	0	0	0	0	0	0	0	0	0	0	0
Uniformed Services U of Hlth Sci	260	12	0	0	0	0	0	0	0	0	0	0
U of Maryland Baltimore	159	39	0	0	0	0	0	0	4	0	4	0
U of Maryland Baltimore County	139	48	14	4	0	6	3	1	4	2	2	0
U of Maryland College Park	16	316	93	11	7	32	21	22	40	32	7	1
Massachusetts, total	4	1,448	351	44	19	106	46	136	229	116	109	4
American International College	346	0	0	0	0	0	0	0	0	0	0	0
Boston College	136	49	0	0	0	0	0	0	8	2	6	0
Boston University	38	190	25	0	0	6	3	16	23	11	11	1
Brandeis University	104	70	0	0	0	0	0	0	12	6	6	0
Clark University	160	38	0	0	0	0	0	0	2	0	2	0
Harvard University	18	288	13	1	1	2	1	8	46	27	19	0
MA Col Pharmacy & Allied Health	333	1	0	0	0	0	0	0	1	0	1	0
Massachusetts Institute of Tech	3	443	226	22	13	71	33	87	77	48	26	3
New England Conserv of Music	346	0	0	0	0	0	0	0	0	0	0	0
Northeastern University	111	64	19	0	0	14	2	3	15	5	10	0
Simmons College	346	0	0	0	0	0	0	0	0	0	0	0
Smith College	346	0	0	0	0	0	0	0	0	0	0	0
Springfield College	346	0	0	0	0	0	0	0	0	0	0	0
Tufts University	106	69	2	0	0	0	2	0	9	4	5	0
U of Massachusetts Amherst	52	157	32	11	2	8	3	8	26	8	18	0
U of Massachusetts Boston	282	8	0	0	0	0	0	0	0	0	0	0
U of Massachusetts Lowell	171	34	19	7	3	2	0	7	9	4	5	0
U of Massachusetts Worcester	221	20	1	0	0	0	0	1	0	0	0	0
Worcester Polytechnic Institute	232	17	14	3	0	3	2	6	1	1	0	0
Michigan, total	8	906	259	28	25	61	63	82	114	46	68	0
Andrews University	287	7	0	0	0	0	0	0	0	0	0	0
Central Michigan University	287	7	0	0	0	0	0	0	0	0	0	0
Eastern Michigan University	346	0	0	0	0	0	0	0	0	0	0	0
Michigan State University	21	259	43	7	7	10	9	10	34	12	22	0
Michigan Technological U	232	17	5	1	1	0	2	1	4	2	2	0
Oakland University	269	10	8	0	0	1	1	6	0	0	0	0
University of Detroit Mercy	275	9	2	1	0	1	0	0	0	0	0	0
University of Michigan Ann Arbor	7	406	166	13	12	43	40	58	49	22	27	0
Wayne State University	50	163	33	6	5	6	9	7	24	8	16	0
Western Michigan University	189	28	2	0	0	0	2	0	3	2	1	0
Minnesota, total	19	455	111	32	5	30	16	28	40	12	27	1
Luther NW Theological Seminary	346	0	0	0	0	0	0	0	0	0	0	0
Mayo Sch Health-Related Sciences	194	25	3	0	0	0	0	3	1	1	0	0
U of Minnesota Twin Cities	9	395	108	32	5	30	16	25	38	11	27	0
University of St Thomas	346	0	0	0	0	0	0	0	0	0	0	0
Walden University	168	35	0	0	0	0	0	0	1	0	0	1
Mississippi, total	37	129	20	1	4	4	1	10	23	3	20	0
Delta State University	346	0	0	0	0	0	0	0	0	0	0	0
Jackson State University	326	2	0	0	0	0	0	0	0	0	0	0
Mississippi State University	119	54	13	0	1	3	0	9	4	0	4	0
Reformed Theological Sem	346	0	0	0	0	0	0	0	0	0	0	0
U of Mississippi	182	30	6	0	3	1	1	1	9	2	7	0
U of Mississippi Med Ctr	294	6	0	0	0	0	0	0	0	0	0	0
U of Southern Mississippi	163	37	1	1	0	0	0	0	10	1	9	0

See explanatory information, if any, and SOURCE at end of table.

Table 6. Doctorates awarded, by State, institution, and major field: 2001

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

State and institution	Earth, atmos., & ocean sciences	Mathematics	Computer sciences	Biological & agricultural sciences			Psychology	Social sciences	Non-S&E, total	Grand total, all fields
				Total	Biological	Agricultural				
Maryland, total	16	32	24	197	190	7	56	124	275	939
Johns Hopkins University	5	7	5	111	111	0	5	51	122	366
Loyola College	0	0	0	0	0	0	5	0	3	8
Morgan State University	0	0	0	0	0	0	0	0	3	3
Peabody Inst of Johns Hopkins U	0	0	0	0	0	0	0	0	8	8
Uniformed Services U of Hlth Sci	0	0	0	11	11	0	1	0	1	13
U of Maryland Baltimore	0	0	0	34	34	0	0	1	33	72
U of Maryland Baltimore County	0	5	1	7	7	0	12	5	0	48
U of Maryland College Park	11	20	18	34	27	7	33	67	105	421
Massachusetts, total	36	52	38	357	344	13	89	296	654	2,102
American International College	0	0	0	0	0	0	0	0	5	5
Boston College	0	0	0	8	8	0	11	22	59	108
Boston University	3	11	6	61	61	0	18	43	110	300
Brandeis University	0	4	1	23	23	0	2	28	26	96
Clark University	0	0	0	4	4	0	13	19	2	40
Harvard University	8	10	7	103	103	0	14	87	220	508
MA Col Pharmacy & Allied Health	0	0	0	0	0	0	0	0	1	2
Massachusetts Institute of Tech	18	16	8	55	55	0	1	42	49	492
New England Conserv of Music	0	0	0	0	0	0	0	0	8	8
Northeastern University	0	4	2	4	4	0	4	16	6	70
Simmons College	0	0	0	0	0	0	0	0	4	4
Smith College	0	0	0	0	0	0	0	0	8	8
Springfield College	0	0	0	0	0	0	0	0	2	2
Tufts University	0	1	2	39	39	0	6	10	19	88
U of Massachusetts Amherst	3	6	8	39	26	13	15	29	104	261
U of Massachusetts Boston	3	0	0	0	0	0	5	0	15	23
U of Massachusetts Lowell	1	0	3	1	1	0	0	1	16	50
U of Massachusetts Worcester	0	0	0	19	19	0	0	0	0	20
Worcester Polytechnic Institute	0	0	1	1	1	0	0	0	0	17
Michigan, total	10	40	27	190	155	35	119	147	436	1,342
Andrews University	0	0	0	0	0	0	6	1	18	25
Central Michigan University	0	2	0	0	0	0	5	0	2	9
Eastern Michigan University	0	0	0	0	0	0	0	0	2	2
Michigan State University	2	12	11	71	43	28	31	55	144	403
Michigan Technological U	1	1	0	6	1	5	0	0	4	21
Oakland University	0	1	0	1	1	0	0	0	7	17
University of Detroit Mercy	0	0	0	0	0	0	7	0	0	9
University of Michigan Ann Arbor	7	21	8	60	58	2	26	69	159	585
Wayne State University	0	2	8	52	52	0	30	14	73	236
Western Michigan University	0	1	0	0	0	0	14	8	27	55
Minnesota, total	9	16	13	132	107	25	67	67	317	772
Luther NW Theological Seminary	0	0	0	0	0	0	0	0	7	7
Mayo Sch Health-Related Sciences	0	0	0	21	21	0	0	0	0	25
U of Minnesota Twin Cities	9	16	12	111	86	25	37	64	238	633
University of St Thomas	0	0	0	0	0	0	0	0	10	10
Walden University	0	0	1	0	0	0	30	3	62	97
Mississippi, total	5	3	4	43	26	17	19	12	209	338
Delta State University	0	0	0	0	0	0	0	0	2	2
Jackson State University	0	0	0	0	0	0	0	2	13	15
Mississippi State University	1	1	2	25	9	16	1	7	46	100
Reformed Theological Sem	0	0	0	0	0	0	0	0	8	8
U of Mississippi	0	1	1	6	6	0	5	2	62	92
U of Mississippi Med Ctr	0	0	0	6	6	0	0	0	4	10
U of Southern Mississippi	4	1	1	6	5	1	13	1	74	111

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Table 6. Doctorates awarded, by State, institution, and major field: 2001

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

State and institution	S&E rank*	Total S&E	Engineering						Physical sciences			
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering	Total	Physics & astronomy	Chemistry	Other physical sciences
Missouri, total	20	439	70	11	6	19	15	19	55	17	38	0
Concordia Seminary	346	0	0	0	0	0	0	0	0	0	0	0
St Louis University	146	44	0	0	0	0	0	0	0	0	0	0
University of Missouri Columbia	48	167	14	0	1	6	4	3	18	4	14	0
University of Missouri Kansas City	171	34	0	0	0	0	0	0	8	2	6	0
University of Missouri Rolla	152	42	31	4	4	6	6	11	8	3	5	0
University of Missouri St Louis	226	18	0	0	0	0	0	0	4	0	4	0
Washington University	64	134	25	7	1	7	5	5	17	8	9	0
Montana, total	47	42	2	0	1	0	0	1	10	5	4	1
Montana St University Bozeman	212	22	2	0	1	0	0	1	9	5	4	0
University of Montana	221	20	0	0	0	0	0	0	1	0	0	1
Nebraska, total	34	164	12	0	0	2	5	5	12	3	9	0
Creighton University	300	5	0	0	0	0	0	0	0	0	0	0
U of Nebraska at Lincoln	62	136	12	0	0	2	5	5	11	3	8	0
U of Nebraska at Omaha	307	4	0	0	0	0	0	0	0	0	0	0
U of Nebraska Medical Center	224	19	0	0	0	0	0	0	1	0	1	0
Nevada, total	44	52	4	0	1	1	1	1	11	6	5	0
University of Nevada-Las Vegas	275	9	3	0	1	1	1	0	3	3	0	0
University of Nevada-Reno	151	43	1	0	0	0	0	1	8	3	5	0
New Hampshire, total	41	76	9	1	1	1	2	4	18	9	9	0
Dartmouth College	140	47	6	1	0	1	0	4	10	5	5	0
University of New Hampshire	185	29	3	0	1	0	2	0	8	4	4	0
New Jersey, total	14	621	159	30	11	51	22	45	94	52	42	0
Drew University	333	1	0	0	0	0	0	0	0	0	0	0
Fairleigh Dickinson U	253	13	0	0	0	0	0	0	0	0	0	0
New Jersey Institute Technology	114	61	42	5	6	19	8	4	5	5	0	0
Princeton Theological Seminary	346	0	0	0	0	0	0	0	0	0	0	0
Princeton University	35	198	45	12	1	20	6	6	45	33	12	0
Rutgers St U NJ New Brunswick	24	246	59	12	3	9	7	28	26	9	17	0
Rutgers St U NJ Newark Campus	194	25	0	0	0	0	0	0	3	0	3	0
Seton Hall University	204	23	0	0	0	0	0	0	9	0	9	0
Stevens Institute of Technology	204	23	13	1	1	3	1	7	6	5	1	0
U of Medicine & Dentistry of NJ	176	31	0	0	0	0	0	0	0	0	0	0
New Mexico, total	36	147	34	5	3	14	2	10	30	16	14	0
New Mexico Inst Mining & Tech	260	12	3	1	0	0	0	2	4	0	4	0
New Mexico State University	145	46	16	1	3	8	1	3	7	5	2	0
U of New Mexico, All Campuses	93	89	15	3	0	6	1	5	19	11	8	0
New York, total	2	2,128	337	43	45	99	65	85	255	108	142	5
Adelphi University	194	25	0	0	0	0	0	0	0	0	0	0
Albany Medical College	264	11	0	0	0	0	0	0	0	0	0	0
Alfred University	275	9	4	0	0	0	0	4	0	0	0	0
Clarkson University	214	21	16	7	2	0	6	1	2	0	2	0
Columbia U in City of New York	25	245	41	2	6	15	11	7	34	15	18	1
Cornell U Endowed Colleges	15	335	71	10	14	18	13	16	48	19	27	2
Cornell U Medical Campus	174	33	0	0	0	0	0	0	0	0	0	0
CUNY Grad School & U Center	52	157	16	3	4	8	0	1	18	5	13	0
Fordham University	124	52	0	0	0	0	0	0	0	0	0	0
Hebrew Union Col-Jewish Inst Rel	346	0	0	0	0	0	0	0	0	0	0	0
Hofstra University	176	31	0	0	0	0	0	0	0	0	0	0
Jewish Theological Sem America	346	0	0	0	0	0	0	0	0	0	0	0
Juilliard School	346	0	0	0	0	0	0	0	0	0	0	0
Long Island University Brooklyn	248	14	0	0	0	0	0	0	0	0	0	0
New School University	146	44	0	0	0	0	0	0	0	0	0	0
New York Medical College	260	12	0	0	0	0	0	0	0	0	0	0
New York University	57	150	0	0	0	0	0	0	11	6	4	1

See explanatory information, if any, and SOURCE at end of table.

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Table 6. Doctorates awarded, by State, institution, and major field: 2001

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

State and institution	Earth, atmos., & ocean sciences	Mathematics	Computer sciences	Biological & agricultural sciences			Psychology	Social sciences	Non-S&E, total	Grand total, all fields
				Total	Biological	Agricultural				
Missouri, total	7	10	10	153	132	21	64	70	300	739
Concordia Seminary	0	0	0	0	0	0	0	0	1	1
St Louis University	2	1	0	11	11	0	17	13	101	145
University of Missouri Columbia	1	4	3	71	50	21	26	30	110	277
University of Missouri Kansas City	0	2	2	7	7	0	11	4	41	75
University of Missouri Rolla	1	2	0	0	0	0	0	0	0	42
University of Missouri St Louis	0	0	0	6	6	0	3	5	12	30
Washington University	3	1	5	58	58	0	7	18	35	169
Montana, total	1	6	0	15	10	5	7	1	16	58
Montana St University Bozeman	0	6	0	4	3	1	0	1	9	31
University of Montana	1	0	0	11	7	4	7	0	7	27
Nebraska, total	5	9	9	61	37	24	32	24	110	274
Creighton University	0	0	0	5	5	0	0	0	0	5
U of Nebraska at Lincoln	5	9	9	38	14	24	32	20	99	235
U of Nebraska at Omaha	0	0	0	0	0	0	0	4	7	11
U of Nebraska Medical Center	0	0	0	18	18	0	0	0	4	23
Nevada, total	7	0	0	9	9	0	18	3	40	92
University of Nevada-Las Vegas	1	0	0	0	0	0	0	2	23	32
University of Nevada-Reno	6	0	0	9	9	0	18	1	17	60
New Hampshire, total	6	2	2	35	30	5	3	1	17	93
Dartmouth College	2	2	2	24	24	0	1	0	3	50
University of New Hampshire	4	0	0	11	6	5	2	1	14	43
New Jersey, total	26	32	27	129	121	8	50	104	320	941
Drew University	0	0	0	0	0	0	1	0	32	33
Fairleigh Dickinson U	0	0	0	0	0	0	13	0	0	13
New Jersey Institute Technology	4	4	6	0	0	0	0	0	0	61
Princeton Theological Seminary	0	0	0	0	0	0	0	0	20	20
Princeton University	3	14	8	32	32	0	3	48	69	267
Rutgers St U NJ New Brunswick	19	12	9	56	48	8	18	47	125	371
Rutgers St U NJ Newark Campus	0	2	1	9	9	0	1	9	28	53
Seton Hall University	0	0	0	1	1	0	13	0	40	63
Stevens Institute of Technology	0	0	3	0	0	0	1	0	6	29
U of Medicine & Dentistry of NJ	0	0	0	31	31	0	0	0	0	31
New Mexico, total	8	6	5	25	15	10	16	23	116	263
New Mexico Inst Mining & Tech	5	0	0	0	0	0	0	0	0	12
New Mexico State University	2	1	3	14	4	10	3	0	32	78
U of New Mexico, All Campuses	1	5	2	11	11	0	13	23	84	173
New York, total	54	86	85	563	515	48	345	403	1,269	3,397
Adelphi University	0	0	0	0	0	0	25	0	10	35
Albany Medical College	0	0	0	11	11	0	0	0	0	11
Alfred University	0	0	0	0	0	0	5	0	2	11
Clarkson University	0	1	0	2	2	0	0	0	0	21
Columbia U in City of New York	11	11	8	68	68	0	8	64	162	407
Cornell U Endowed Colleges	8	14	17	114	73	41	6	57	82	417
Cornell U Medical Campus	0	0	0	33	33	0	0	0	0	33
CUNY Grad School & U Center	3	7	4	24	24	0	44	41	92	249
Fordham University	0	0	0	0	0	0	38	14	59	111
Hebrew Union Col-Jewish Inst Rel	0	0	0	0	0	0	0	0	1	1
Hofstra University	0	0	0	0	0	0	31	0	10	41
Jewish Theological Sem America	0	0	0	0	0	0	0	0	4	4
Juilliard School	0	0	0	0	0	0	0	0	9	9
Long Island University Brooklyn	0	0	0	0	0	0	14	0	0	14
New School University	0	0	0	0	0	0	21	23	6	50
New York Medical College	0	0	0	12	12	0	0	0	0	12
New York University	0	15	13	39	39	0	23	49	208	358

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Table 6. Doctorates awarded, by State, institution, and major field: 2001

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

State and institution	S&E rank*	Total S&E	Engineering						Physical sciences			
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering	Total	Physics & astronomy	Chemistry	Other physical sciences
New York, continued:												
Pace University New York Campus	346	0	0	0	0	0	0	0	0	0	0	0
Polytechnic University	160	38	18	1	4	12	1	0	15	2	13	0
Rensselaer Polytechnic Institute	90	93	56	8	3	19	13	13	14	8	6	0
Rockefeller University	244	15	0	0	0	0	0	0	1	1	0	0
St John's U (Jamaica, NY)	226	18	0	0	0	0	0	0	0	0	0	0
SUNY at Albany	94	87	3	1	0	0	0	2	9	8	1	0
SUNY at Binghamton	107	67	7	0	0	1	4	2	7	0	7	0
SUNY at Buffalo	42	179	46	7	9	6	10	14	38	9	29	0
SUNY at Stony Brook	46	174	22	0	0	6	3	13	22	16	6	0
SUNY Col Environ Sci & Forestry	238	16	1	0	1	0	0	0	1	0	1	0
SUNY Col of Optometry	346	0	0	0	0	0	0	0	0	0	0	0
SUNY Health Sci Ctr Brooklyn	307	4	0	0	0	0	0	0	0	0	0	0
SUNY Health Sci Ctr Syracuse	282	8	0	0	0	0	0	0	0	0	0	0
Syracuse University	99	81	13	2	2	7	1	1	11	4	7	0
Teachers College Columbia U	185	29	0	0	0	0	0	0	1	0	0	1
Union Theological Seminary	346	0	0	0	0	0	0	0	0	0	0	0
University of Rochester	68	129	23	2	0	7	3	11	23	15	8	0
Yeshiva University	132	51	0	0	0	0	0	0	0	0	0	0
North Carolina, total	10	726	155	9	22	44	28	52	84	17	66	1
Duke University	44	177	37	0	2	11	7	17	22	5	17	0
East Carolina University	294	6	0	0	0	0	0	0	0	0	0	0
North Carolina A&T State U	294	6	6	0	0	3	3	0	0	0	0	0
North Carolina State U Raleigh	23	254	88	9	16	27	12	24	19	8	10	1
U of North Carolina Chapel Hill	30	231	12	0	4	0	0	8	42	4	38	0
U of North Carolina Charlotte	260	12	9	0	0	3	6	0	0	0	0	0
U of North Carolina Greensboro	244	15	0	0	0	0	0	0	0	0	0	0
Wake Forest University	194	25	3	0	0	0	0	3	1	0	1	0
North Dakota, total	46	43	2	0	0	1	0	1	8	0	8	0
North Dakota State University	212	22	1	0	0	1	0	0	6	0	6	0
University of North Dakota	214	21	1	0	0	0	0	1	2	0	2	0
Ohio, total	7	1,061	283	55	15	76	39	98	163	74	87	2
Air Force Institute Technology	282	8	6	0	0	3	1	2	1	1	0	0
Bowling Green State University	140	47	0	0	0	0	0	0	4	0	4	0
Case Western Reserve University	61	139	47	4	1	10	9	23	22	6	15	1
Cleveland State University	192	26	10	2	1	3	2	2	4	0	4	0
Hebrew Union Col-Jewish Inst Rel	346	0	0	0	0	0	0	0	0	0	0	0
Kent State University Geauga	115	59	0	0	0	0	0	0	13	11	2	0
Medical College of Ohio	264	11	0	0	0	0	0	0	0	0	0	0
Miami University Oxford Campus	199	24	0	0	0	0	0	0	3	0	3	0
Ohio State University	9	395	90	10	1	24	18	37	55	31	23	1
Ohio University	163	37	6	1	0	4	1	0	9	6	3	0
University of Akron	83	99	42	27	4	7	3	1	25	10	15	0
University of Cincinnati	55	153	53	5	7	20	5	16	19	4	15	0
University of Dayton	238	16	12	0	0	4	0	8	3	3	0	0
University of Toledo	152	42	16	6	1	1	0	8	5	2	3	0
Wright State University	300	5	1	0	0	0	0	1	0	0	0	0
Youngstown State University	346	0	0	0	0	0	0	0	0	0	0	0
Oklahoma, total	30	238	50	23	3	5	11	8	19	7	12	0
Oklahoma State University	74	109	16	5	2	1	4	4	8	2	6	0
University of Oklahoma Norman	75	108	25	11	1	4	5	4	11	5	6	0
University of Tulsa	214	21	9	7	0	0	2	0	0	0	0	0
Oregon, total	29	262	28	2	1	13	3	9	35	15	17	3
Oregon Grad Inst Science & Tech	269	10	4	0	0	3	0	1	0	0	0	0
Oregon Health Sciences U	253	13	0	0	0	0	0	0	3	0	0	3
Oregon State University	71	127	18	2	0	5	3	8	20	7	13	0
Portland State University	189	28	6	0	1	5	0	0	0	0	0	0
University of Oregon	96	84	0	0	0	0	0	0	12	8	4	0

See explanatory information, if any, and SOURCE at end of table.

Table 6. Doctorates awarded, by State, institution, and major field: 2001

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

State and institution	Earth, atmos., & ocean sciences	Mathematics	Computer sciences	Biological & agricultural sciences			Psychology	Social sciences	Non-S&E, total	Grand total, all fields
				Total	Biological	Agricultural				
New York, continued:										
Pace University New York Campus	0	0	0	0	0	0	0	0	4	4
Polytechnic University	0	0	5	0	0	0	0	0	0	38
Rensselaer Polytechnic Institute	1	6	8	2	2	0	0	6	7	100
Rockefeller University	0	0	0	14	14	0	0	0	0	15
St John's U (Jamaica, NY)	0	0	0	4	4	0	14	0	27	45
SUNY at Albany	8	1	5	15	15	0	17	29	63	150
SUNY at Binghamton	2	8	3	10	10	0	10	20	51	118
SUNY at Buffalo	2	3	5	46	46	0	19	20	113	292
SUNY at Stony Brook	17	17	6	51	51	0	12	27	54	228
SUNY Col Environ Sci & Forestry	2	0	0	12	5	7	0	0	0	16
SUNY Col of Optometry	0	0	0	0	0	0	0	0	2	2
SUNY Health Sci Ctr Brooklyn	0	0	0	4	4	0	0	0	2	6
SUNY Health Sci Ctr Syracuse	0	0	0	8	8	0	0	0	0	8
Syracuse University	0	1	8	7	7	0	12	29	48	129
Teachers College Columbia U	0	0	0	1	1	0	24	3	165	194
Union Theological Seminary	0	0	0	0	0	0	0	0	14	14
University of Rochester	0	2	3	45	45	0	12	21	66	195
Yeshiva University	0	0	0	41	41	0	10	0	8	59
North Carolina, total	23	40	19	256	220	36	69	80	367	1,093
Duke University	6	3	8	72	72	0	8	21	74	251
East Carolina University	0	0	0	6	6	0	0	0	9	15
North Carolina A&T State U	0	0	0	0	0	0	0	0	0	6
North Carolina State U Raleigh	10	27	2	79	43	36	18	11	52	306
U of North Carolina Chapel Hill	7	9	8	74	74	0	31	48	186	397
U of North Carolina Charlotte	0	1	1	1	1	0	0	0	12	24
U of North Carolina Greensboro	0	0	0	3	3	0	12	0	54	69
Wake Forest University	0	0	0	21	21	0	0	0	0	25
North Dakota, total	1	2	1	16	9	7	13	0	23	66
North Dakota State University	0	2	1	12	5	7	0	0	0	22
University of North Dakota	1	0	0	4	4	0	13	0	23	44
Ohio, total	28	33	13	261	240	21	154	126	636	1,697
Air Force Institute Technology	0	1	0	0	0	0	0	0	0	8
Bowling Green State University	0	4	0	4	4	0	17	18	53	100
Case Western Reserve University	1	0	2	45	45	0	8	14	56	195
Cleveland State University	0	0	2	8	8	0	1	1	10	36
Hebrew Union Col-Jewish Inst Rel	0	0	0	0	0	0	0	0	3	3
Kent State University Geauga	1	5	2	12	12	0	17	9	60	119
Medical College of Ohio	0	0	0	11	11	0	0	0	1	12
Miami University Oxford Campus	0	0	0	12	12	0	6	3	23	47
Ohio State University	22	17	7	105	84	21	37	82	196	591
Ohio University	0	2	0	7	7	0	13	0	68	105
University of Akron	0	1	0	3	3	0	21	7	21	120
University of Cincinnati	4	3	0	39	39	0	23	12	96	249
University of Dayton	0	0	0	1	1	0	0	0	12	28
University of Toledo	0	0	0	10	10	0	11	0	35	77
Wright State University	0	0	0	4	4	0	0	0	0	5
Youngstown State University	0	0	0	0	0	0	0	0	2	2
Oklahoma, total	10	8	4	58	44	14	35	54	189	427
Oklahoma State University	2	3	1	34	20	14	16	29	119	228
University of Oklahoma Norman	7	5	1	23	23	0	11	25	68	176
University of Tulsa	1	0	2	1	1	0	8	0	2	23
Oregon, total	19	9	5	92	65	27	24	60	121	383
Oregon Grad Inst Science & Tech	1	0	2	3	3	0	0	0	0	10
Oregon Health Sciences U	0	0	0	9	9	0	1	0	8	21
Oregon State University	11	4	1	63	36	27	3	7	32	159
Portland State University	2	2	1	2	2	0	2	13	10	38
University of Oregon	5	3	1	15	15	0	18	30	71	155

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Table 6. Doctorates awarded, by State, institution, and major field: 2001

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State and institution	S&E rank*	Total S&E	Engineering						Physical sciences			
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering	Total	Physics & astronomy	Chemistry	Other physical sciences
Pennsylvania, total	6	1,247	340	44	22	89	57	128	167	57	109	1
Allegheny Univ of the Hlth Sci	185	29	0	0	0	0	0	0	0	0	0	0
Bryn Mawr College	287	7	0	0	0	0	0	0	1	0	1	0
Carnegie Mellon University	56	152	78	9	5	30	11	23	18	10	8	0
Drexel University	146	44	19	2	6	2	2	7	7	0	7	0
Duquesne University	204	23	0	0	0	0	0	0	7	0	7	0
Indiana University of PA	189	28	0	0	0	0	0	0	0	0	0	0
Lehigh University	100	75	41	12	2	11	4	12	15	9	6	0
Pennsylvania State U	13	355	126	9	5	26	29	57	53	20	32	1
Philadelphia Col Pharmacy & Sci	307	4	0	0	0	0	0	0	3	0	3	0
Temple University	87	95	1	0	0	0	0	1	3	0	3	0
Thomas Jefferson University	253	13	0	0	0	0	0	0	0	0	0	0
University of Pennsylvania	30	231	29	3	0	8	6	14	32	11	21	0
University of Pittsburgh	39	189	46	9	4	14	5	14	26	7	19	0
Villanova University	326	2	0	0	0	0	0	0	2	0	2	0
Westminster Theological Seminary	346	0	0	0	0	0	0	0	0	0	0	0
Widener U Pennsylvania Campus	346	0	0	0	0	0	0	0	0	0	0	0
Rhode Island, total	35	162	26	4	0	7	7	8	22	10	12	0
Brown University	84	98	13	2	0	4	5	2	17	9	8	0
Providence College	346	0	0	0	0	0	0	0	0	0	0	0
Salve Regina University	346	0	0	0	0	0	0	0	0	0	0	0
University of Rhode Island	111	64	13	2	0	3	2	6	5	1	4	0
South Carolina, total	32	216	50	12	3	13	9	13	27	7	20	0
Clemson University	92	90	33	3	3	9	5	13	13	3	10	0
Medical U South Carolina	214	21	0	0	0	0	0	0	0	0	0	0
South Carolina State University	346	0	0	0	0	0	0	0	0	0	0	0
U of South Carolina at Columbia	78	105	17	9	0	4	4	0	14	4	10	0
South Dakota, total	49	34	1	0	0	0	0	1	2	0	2	0
South Dakota Sch of Mines & Tech	307	4	1	0	0	0	0	1	0	0	0	0
South Dakota State University	224	19	0	0	0	0	0	0	2	0	2	0
University of South Dakota	264	11	0	0	0	0	0	0	0	0	0	0
Tennessee, total	22	377	60	4	6	16	13	21	49	22	27	0
East Tennessee State University	307	4	0	0	0	0	0	0	0	0	0	0
Meharry Medical College	244	15	0	0	0	0	0	0	0	0	0	0
Mid-America Baptist Theol Sem	346	0	0	0	0	0	0	0	0	0	0	0
Middle Tennessee State U	326	2	0	0	0	0	0	0	1	0	1	0
Tennessee State University	253	13	0	0	0	0	0	0	0	0	0	0
Tennessee Technological U	300	5	5	0	0	1	4	0	0	0	0	0
University of Memphis	152	42	4	0	1	1	1	1	4	0	4	0
University of Tennessee Knoxville	58	149	32	3	3	7	7	12	22	13	9	0
University of Tennessee Memphis	194	25	0	0	0	0	0	0	4	0	4	0
Vanderbilt University	72	122	19	1	2	7	1	8	18	9	9	0
Texas, total	3	1,598	378	51	60	130	53	84	198	78	119	1
Baylor College of Medicine	140	47	0	0	0	0	0	0	0	0	0	0
Baylor University	238	16	0	0	0	0	0	0	4	2	2	0
Dallas Theological Seminary	346	0	0	0	0	0	0	0	0	0	0	0
Lamar University	275	9	9	2	1	3	1	2	0	0	0	0
Rice University	90	93	20	6	3	6	4	1	24	11	13	0
Sam Houston State University	294	6	0	0	0	0	0	0	0	0	0	0
Southern Methodist University	168	35	15	0	0	7	3	5	1	1	0	0
Southwestern Baptist Theol Sem	333	1	0	0	0	0	0	0	0	0	0	0
St Mary's University	326	2	0	0	0	0	0	0	0	0	0	0
Stephen F Austin State U	320	3	0	0	0	0	0	0	0	0	0	0

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Table 6. Doctorates awarded, by State, institution, and major field: 2001

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State and institution	Earth, atmos., & ocean sciences	Mathematics	Computer sciences	Biological & agricultural sciences			Psychology	Social sciences	Non-S&E, total	Grand total, all fields
				Total	Biological	Agricultural				
Pennsylvania, total	17	47	55	261	250	11	167	193	869	2,116
Allegheny Univ of the Hlth Sci	0	0	0	10	10	0	19	0	0	29
Bryn Mawr College	1	0	0	3	3	0	1	1	14	21
Carnegie Mellon University	1	12	19	4	4	0	5	15	23	175
Drexel University	2	0	0	3	3	0	8	5	7	51
Duquesne University	0	0	0	2	2	0	14	0	14	37
Indiana University of PA	0	0	0	0	0	0	17	11	60	88
Lehigh University	2	2	1	5	5	0	9	0	26	101
Pennsylvania State U	11	10	8	73	62	11	35	41	186	541
Philadelphia Col Pharmacy & Sci	0	0	0	1	1	0	0	0	6	10
Temple University	0	11	2	30	30	0	24	24	143	238
Thomas Jefferson University	0	0	0	13	13	0	0	0	0	13
University of Pennsylvania	0	6	12	75	75	0	12	65	142	373
University of Pittsburgh	0	6	15	42	42	0	23	31	170	359
Villanova University	0	0	0	0	0	0	0	0	2	4
Westminster Theological Seminary	0	0	0	0	0	0	0	0	13	13
Widener U Pennsylvania Campus	0	0	0	0	0	0	0	0	63	63
Rhode Island, total	14	14	2	21	20	1	29	34	63	225
Brown University	6	9	2	15	15	0	5	31	37	135
Providence College	0	0	0	0	0	0	0	0	2	2
Salve Regina University	0	0	0	0	0	0	0	0	4	4
University of Rhode Island	8	5	0	6	5	1	24	3	20	84
South Carolina, total	2	12	4	64	53	11	29	28	173	389
Clemson University	1	8	1	29	18	11	0	5	20	110
Medical U South Carolina	0	0	0	21	21	0	0	0	2	23
South Carolina State University	0	0	0	0	0	0	0	0	25	25
U of South Carolina at Columbia	1	4	3	14	14	0	29	23	126	231
South Dakota, total	4	0	0	14	8	6	8	5	63	97
South Dakota Sch of Mines & Tech	3	0	0	0	0	0	0	0	0	4
South Dakota State University	1	0	0	11	5	6	0	5	0	19
University of South Dakota	0	0	0	3	3	0	8	0	63	74
Tennessee, total	2	14	9	127	123	4	75	41	282	659
East Tennessee State University	0	0	0	4	4	0	0	0	9	13
Meharry Medical College	0	0	0	15	15	0	0	0	0	15
Mid-America Baptist Theol Sem	0	0	0	0	0	0	0	0	4	4
Middle Tennessee State U	0	0	0	0	0	0	0	1	14	16
Tennessee State University	0	0	0	0	0	0	10	3	39	52
Tennessee Technological U	0	0	0	0	0	0	0	0	0	5
University of Memphis	0	7	3	4	4	0	20	0	50	92
University of Tennessee Knoxville	2	6	2	31	27	4	30	24	89	238
University of Tennessee Memphis	0	0	0	21	21	0	0	0	7	32
Vanderbilt University	0	1	4	52	52	0	15	13	70	192
Texas, total	68	57	60	408	349	59	219	210	1,062	2,660
Baylor College of Medicine	0	0	0	47	47	0	0	0	0	47
Baylor University	0	3	0	5	5	0	1	3	46	62
Dallas Theological Seminary	0	0	0	0	0	0	0	0	17	17
Lamar University	0	0	0	0	0	0	0	0	1	10
Rice University	5	13	5	2	2	0	9	15	35	128
Sam Houston State University	0	0	0	0	0	0	0	0	0	6
Southern Methodist University	0	3	3	2	2	0	6	5	2	37
Southwestern Baptist Theol Sem	0	0	0	0	0	0	1	0	41	42
St Mary's University	0	0	0	0	0	0	2	0	4	6
Stephen F Austin State U	0	0	0	3	0	3	0	0	0	3

See explanatory information, if any, and SOURCE at end of table.

Table 6. Doctorates awarded, by State, institution, and major field: 2001

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

State and institution	S&E rank*	Total S&E	Engineering						Physical sciences			
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering	Total	Physics & astronomy	Chemistry	Other physical sciences
Texas, continued:												
Texas A&M University	11	374	111	11	17	46	14	23	34	8	26	0
Texas A&M University Commerce	269	10	0	0	0	0	0	0	0	0	0	0
Texas A&M University Kingsville	346	0	0	0	0	0	0	0	0	0	0	0
Texas Christian University	253	13	0	0	0	0	0	0	7	2	5	0
Texas Southern University	333	1	0	0	0	0	0	0	0	0	0	0
Texas Tech University	97	83	15	0	4	2	6	3	7	0	7	0
Texas Woman's University	199	24	0	0	0	0	0	0	0	0	0	0
University of Dallas	320	3	0	0	0	0	0	0	0	0	0	0
University of Houston	86	96	25	8	5	3	2	7	22	7	15	0
U North TX	103	71	2	0	0	0	0	2	8	3	5	0
U North TX Hlth Sci Ctr Ft Worth	232	17	0	0	0	0	0	0	0	0	0	0
University of St Thomas	346	0	0	0	0	0	0	0	0	0	0	0
U Texas at Arlington	122	53	21	0	3	6	4	8	5	2	3	0
U Texas at Austin	5	426	143	24	26	47	19	27	69	34	34	1
U Texas at Dallas	124	52	7	0	0	7	0	0	15	6	9	0
U Texas at El Paso	226	18	10	0	1	3	0	6	0	0	0	0
U Texas Hlth Sci Ctr	136	49	0	0	0	0	0	0	1	1	0	0
U Texas Hlth Sci Ctr San Antonio	182	30	0	0	0	0	0	0	0	0	0	0
U Texas Med Branch Galveston	199	24	0	0	0	0	0	0	0	0	0	0
U Texas SW Med Ctr Dallas	152	42	0	0	0	0	0	0	1	1	0	0
Utah, total	31	236	47	5	5	7	13	17	49	19	30	0
Brigham Young University	122	53	10	2	2	3	3	0	10	2	8	0
University of Utah	65	133	30	3	1	2	10	14	33	14	19	0
Utah State University	134	50	7	0	2	2	0	3	6	3	3	0
Vermont, total	44	52	6	0	0	3	1	2	7	0	7	0
Middlebury College	346	0	0	0	0	0	0	0	0	0	0	0
University of Vermont	124	52	6	0	0	3	1	2	7	0	7	0
Virginia, total	13	628	169	14	25	40	35	55	82	44	37	1
College of William and Mary	176	31	0	0	0	0	0	0	11	10	1	0
George Mason University	84	98	9	0	0	3	0	6	1	0	1	0
Hampton University	294	6	0	0	0	0	0	0	6	6	0	0
Old Dominion University	124	52	12	0	2	4	5	1	6	6	0	0
Regent University	346	0	0	0	0	0	0	0	0	0	0	0
Union Theol Seminary (PSCE)	346	0	0	0	0	0	0	0	0	0	0	0
University of Virginia	41	184	43	6	4	4	7	22	31	17	14	0
Virginia Commonwealth University	104	70	2	0	0	0	0	2	9	0	9	0
Virginia Polytechnic Inst & St U	40	187	103	8	19	29	23	24	18	5	12	1

See explanatory information, if any, and SOURCE at end of table.

Table 6. Doctorates awarded, by State, institution, and major field: 2001

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

State and institution	Earth, atmos., & ocean sciences	Mathematics	Computer sciences	Biological & agricultural sciences			Psychology	Social sciences	Non-S&E, total	Grand total, all fields
				Total	Biological	Agricultural				
Texas, continued:										
Texas A&M University	27	16	17	95	52	43	24	50	132	506
Texas A&M University Commerce	0	0	0	0	0	0	10	0	32	42
Texas A&M University Kingsville	0	0	0	0	0	0	0	0	3	3
Texas Christian University	0	0	0	0	0	0	6	0	8	21
Texas Southern University	0	0	0	1	1	0	0	0	19	20
Texas Tech University	2	2	1	23	10	13	27	6	56	139
Texas Woman's University	0	0	0	5	5	0	14	5	62	86
University of Dallas	0	0	0	0	0	0	0	3	7	10
University of Houston	4	3	4	11	11	0	21	6	106	202
U North TX	4	2	7	10	10	0	28	10	88	159
U North TX Hlth Sci Ctr Ft Worth	0	0	0	17	17	0	0	0	1	18
University of St Thomas	0	0	0	0	0	0	0	0	2	2
U Texas at Arlington	0	4	6	2	2	0	3	12	37	90
U Texas at Austin	11	11	10	49	49	0	53	80	306	732
U Texas at Dallas	8	0	7	6	6	0	1	8	14	66
U Texas at El Paso	5	0	0	0	0	0	3	0	9	27
U Texas Hlth Sci Ctr	2	0	0	45	45	0	0	1	26	75
U Texas Hlth Sci Ctr San Antonio	0	0	0	30	30	0	0	0	5	35
U Texas Med Branch Galveston	0	0	0	24	24	0	0	0	3	27
U Texas SW Med Ctr Dallas	0	0	0	31	31	0	10	0	0	42
Utah, total	8	9	7	60	55	5	39	17	112	348
Brigham Young University	0	1	1	9	8	1	21	1	26	79
University of Utah	8	3	6	35	35	0	8	10	71	204
Utah State University	0	5	0	16	12	4	10	6	15	65
Vermont, total	0	0	0	27	24	3	12	0	10	62
Middlebury College	0	0	0	0	0	0	0	0	2	2
University of Vermont	0	0	0	27	24	3	12	0	8	60
Virginia, total	13	12	41	134	114	20	75	102	340	968
College of William and Mary	6	0	3	5	3	2	1	5	23	54
George Mason University	3	3	23	6	5	1	15	38	40	138
Hampton University	0	0	0	0	0	0	0	0	0	6
Old Dominion University	0	0	5	15	15	0	2	12	10	62
Regent University	0	0	0	0	0	0	0	0	6	6
Union Theol Seminary (PSCE)	0	0	0	0	0	0	0	0	9	9
University of Virginia	3	6	8	45	45	0	21	27	130	314
Virginia Commonwealth University	0	0	0	34	34	0	18	7	33	103
Virginia Polytechnic Inst & St U	1	3	2	29	12	17	18	13	89	276

See explanatory information, if any, and SOURCE at end of table.

Table 6. Doctorates awarded, by State, institution, and major field: 2001

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

State and institution	S&E rank*	Total S&E	Engineering						Physical sciences			
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering	Total	Physics & astronomy	Chemistry	Other physical sciences
Washington, total	18	457	82	9	8	31	16	18	54	24	30	0
Gonzaga University	320	3	0	0	0	0	0	0	0	0	0	0
Seattle Pacific University	282	8	0	0	0	0	0	0	0	0	0	0
Seattle University	346	0	0	0	0	0	0	0	0	0	0	0
University of Washington Seattle	14	341	66	8	6	25	14	13	45	19	26	0
Washington State University	78	105	16	1	2	6	2	5	9	5	4	0
West Virginia, total	42	67	15	1	4	2	5	3	8	5	3	0
Marshall University	326	2	0	0	0	0	0	0	0	0	0	0
West Virginia University	109	65	15	1	4	2	5	3	8	5	3	0
Wisconsin, total	16	530	111	15	14	23	29	30	69	28	40	1
Marquette University	176	31	13	1	1	6	2	3	2	0	2	0
Medical College of Wisconsin	238	16	0	0	0	0	0	0	0	0	0	0
U of Wisconsin Madison	6	424	83	14	12	14	21	22	59	26	32	1
U of Wisconsin Milwaukee	115	59	15	0	1	3	6	5	8	2	6	0
Wyoming, total	48	38	2	0	1	1	0	0	5	2	3	0
University of Wyoming	160	38	2	0	1	1	0	0	5	2	3	0
Puerto Rico, total	40	97	2	0	2	0	0	0	12	0	12	0
Carlos Albizu University	167	36	0	0	0	0	0	0	0	0	0	0
Inter American U PR Metropolitan	346	0	0	0	0	0	0	0	0	0	0	0
U of PR Mayaguez Campus	287	7	2	0	2	0	0	0	0	0	0	0
U of PR Medical Science Campus	269	10	0	0	0	0	0	0	0	0	0	0
U of PR Rio Piedras	146	44	0	0	0	0	0	0	12	0	12	0

See explanatory information, if any, and SOURCE at end of table.

Table 6. Doctorates awarded, by State, institution, and major field: 2001

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

State and institution	Earth, atmos., & ocean sciences	Mathematics	Computer sciences	Biological & agricultural sciences			Psychology	Social sciences	Non-S&E, total	Grand total, all fields
				Total	Biological	Agricultural				
Washington, total	23	19	16	141	116	25	35	87	203	660
Gonzaga University	0	0	0	0	0	0	1	2	6	9
Seattle Pacific University	0	0	0	0	0	0	8	0	3	11
Seattle University	0	0	0	0	0	0	0	0	7	7
University of Washington Seattle	19	17	15	102	89	13	18	59	143	484
Washington State University	4	2	1	39	27	12	8	26	44	149
West Virginia, total	1	1	1	17	16	1	17	7	61	128
Marshall University	0	0	0	2	2	0	0	0	0	2
West Virginia University	1	1	1	15	14	1	17	7	61	126
Wisconsin, total	18	27	11	149	120	29	43	102	294	824
Marquette University	0	2	0	5	5	0	9	0	25	56
Medical College of Wisconsin	0	0	0	16	16	0	0	0	0	16
U of Wisconsin Madison	15	20	11	123	94	29	26	87	232	656
U of Wisconsin Milwaukee	3	5	0	5	5	0	8	15	37	98
Wyoming, total	2	3	0	14	11	3	7	5	32	70
University of Wyoming	2	3	0	14	11	3	7	5	32	70
Puerto Rico, total	0	0	0	30	27	3	53	0	54	151
Carlos Albizu University	0	0	0	0	0	0	36	0	0	36
Inter American U PR Metropolitan	0	0	0	0	0	0	0	0	24	24
U of PR Mayaguez Campus	0	0	0	5	2	3	0	0	0	7
U of PR Medical Science Campus	0	0	0	10	10	0	0	0	0	10
U of PR Rio Piedras	0	0	0	15	15	0	17	0	30	74

KEY: * = States are ranked 1 to 51 and institutions are ranked 1 to 346 based on total science and engineering (S&E) doctorate awards.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates

Table 7. Postgraduation plans of doctorate recipients, by citizenship status and major field: 2001

Field of study	Total	Definite plans								Location unknown
		Total with definite plans	In the United States					Abroad		
			Total in U.S.	Postdoc study	Academic employment	Industry employment	Other [1]			
	All recipients									
Science and engineering, total [2]	25,509	17,085	15,392	6,346	3,110	4,319	1,617	1,625	68	
Engineering, total	5,502	3,612	3,215	607	351	1,976	281	382	15	
Aeronautical/astronautical	203	136	124	25	12	57	30	11	1	
Chemical	726	478	423	104	19	288	12	54	1	
Civil	593	345	291	66	63	130	32	53	1	
Electrical	1,577	1,078	980	97	86	731	66	91	7	
Industrial	205	134	110	10	34	54	12	23	1	
Materials/metallurgical	499	350	315	74	11	212	18	34	1	
Mechanical	953	617	560	113	57	336	54	54	3	
Other engineering	746	474	412	118	69	168	57	62	0	
Sciences, total [2]	20,007	13,473	12,177	5,739	2,759	2,343	1,336	1,243	53	
Physical sciences, total	3,389	2,418	2,221	1,143	177	796	105	184	13	
Astronomy	186	142	123	91	8	16	8	19	0	
Chemistry	1,979	1,429	1,344	702	97	495	50	75	10	
Physics	1,193	828	738	343	69	281	45	87	3	
Other physical sciences	31	19	16	7	3	4	2	3	0	
Earth, atmospheric, and ocean sciences	749	508	446	221	87	81	57	61	1	
Mathematics	1,006	694	607	217	228	112	50	84	3	
Computer sciences	826	548	501	55	155	259	32	46	1	
Biological sciences	5,678	3,855	3,610	2,768	300	358	184	230	15	
Agricultural sciences	848	554	415	174	107	83	51	138	1	
Psychology	3,433	2,211	2,151	853	476	338	484	53	7	
Social sciences [3]	4,078	2,685	2,226	308	1,229	316	373	447	12	
Non-S&E, total [2]	15,235	9,804	9,021	763	5,183	732	2,343	746	37	
Grand total, all fields	40,744	26,889	24,413	7,109	8,293	5,051	3,960	2,371	105	

See explanatory information, if any, and SOURCE at end of table.

Table 7. Postgraduation plans of doctorate recipients, by citizenship status and major field: 2001

Field of study	Total	Definite plans							
		Total with definite plans	In the United States				Abroad	Location unknown
			Total in U.S.	Postdoc study	Academic employment	Industry employment	Other [1]		
	U.S. citizens								
Science and engineering, total [2]	14,999	10,770	10,389	4,255	2,458	2,260	1,416	344	37
Engineering, total	2,139	1,544	1,493	255	225	782	231	46	5
Aeronautical/astronautical	94	75	74	9	9	27	29	1	0
Chemical	327	231	218	45	14	150	9	12	1
Civil	222	150	144	28	48	46	22	6	0
Electrical	467	338	330	29	43	207	51	6	2
Industrial	72	50	49	0	16	22	11	1	0
Materials/metallurgical	202	156	150	32	7	97	14	5	1
Mechanical	385	287	283	55	36	144	48	3	1
Other engineering	370	257	245	57	52	89	47	12	0
Sciences, total [2]	12,860	9,226	8,896	4,000	2,233	1,478	1,185	298	32
Physical sciences, total	1,860	1,410	1,339	649	144	457	89	63	8
Astronomy	119	97	88	67	6	9	6	9	0
Chemistry	1,126	870	833	397	81	316	39	29	8
Physics	602	432	407	180	55	130	42	25	0
Other physical sciences	13	11	11	5	2	2	2	0	0
Earth, atmospheric, and ocean sciences	428	317	301	138	76	42	45	16	0
Mathematics	468	350	335	103	146	48	38	13	2
Computer sciences	365	258	254	27	106	96	25	4	0
Biological sciences	3,876	2,769	2,666	1,987	251	262	166	94	9
Agricultural sciences	401	289	277	75	96	62	44	12	0
Psychology	2,938	2,058	2,031	798	445	318	470	20	7
Social sciences [2]	2,524	1,775	1,693	223	969	193	308	76	6
Non-S&E, total [2]	11,908	8,337	8,156	633	4,655	601	2,267	155	26
Grand total, all fields	26,907	19,107	18,545	4,888	7,113	2,861	3,683	499	63

See explanatory information, if any, and SOURCE at end of table.

Table 7. Postgraduation plans of doctorate recipients, by citizenship status and major field: 2001

Field of study	Total	Definite plans								
		Total with definite plans	In the United States					Abroad	Location unknown
			Total in U.S.	Postdoc study	Academic employment	Industry employment	Other[1]		
	Non-U.S. citizens with permanent visas								
Science and engineering, total[2]	1,263	831	790	305	128	305	52	39	2
Engineering, total	298	197	187	22	14	142	9	10	0
Aeronautical/astronautical	8	4	4	0	0	4	0	0	0
Chemical	28	20	19	5	2	12	0	1	0
Civil	47	25	22	2	2	16	2	3	0
Electrical	94	69	67	4	2	56	5	2	0
Industrial	16	10	10	0	4	6	0	0	0
Materials/metallurgical	23	18	18	4	0	14	0	0	0
Mechanical	42	28	26	0	1	25	0	2	0
Other engineering	38	23	21	7	3	9	2	2	0
Sciences, total[2]	967	634	603	283	114	163	43	29	2
Physical sciences, total	183	122	117	59	3	51	4	5	0
Astronomy	4	2	2	1	0	1	0	0	0
Chemistry	103	75	74	36	2	33	3	1	0
Physics	74	44	40	21	1	17	1	4	0
Other physical sciences	2	1	1	1	0	0	0	0	0
Earth, atmospheric, and ocean sciences	36	25	25	9	3	12	1	0	0
Mathematics	54	38	37	13	11	11	2	1	0
Computer sciences	55	38	38	4	7	26	1	0	0
Biological sciences	340	225	215	159	20	30	6	9	1
Agricultural sciences	28	14	13	5	2	4	2	1	0
Psychology	75	52	50	22	14	7	7	2	0
Social sciences[2]	196	120	108	12	54	22	20	11	1
Non-S&E, total[2]	559	314	276	32	174	36	34	38	2
Grand total, all fields	1,822	1,145	1,066	337	302	341	86	75	4

See explanatory information, if any, and SOURCE at end of table.

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Table 7. Postgraduation plans of doctorate recipients, by citizenship status and major field: 2001

Field of study	Total	Definite plans								
		Total with definite plans	In the United States					Abroad	Location unknown
			Total in U.S.	Postdoc study	Academic employment	Industry employment	Other [1]		
	Non-U.S. citizens with temporary visas								
Science and engineering, total [2]	7,925	5,463	4,200	1,780	522	1,752	146	1,242	21
Engineering, total	2,772	1,866	1,532	328	112	1,051	41	326	8
Aeronautical/astronautical	87	57	46	16	3	26	1	10	1
Chemical	335	227	186	54	3	126	3	41	0
Civil	297	170	125	36	13	68	8	44	1
Electrical	927	670	583	64	41	468	10	83	4
Industrial	108	72	50	9	14	26	1	22	0
Materials/metallurgical	248	176	147	38	4	101	4	29	0
Mechanical	491	301	250	58	20	166	6	49	2
Other engineering	279	193	145	53	14	70	8	48	0
Sciences, total [2]	5,153	3,597	2,668	1,452	410	701	105	916	13
Physical sciences, total	1,213	883	764	434	30	288	12	116	3
Astronomy	53	43	33	23	2	6	2	10	0
Chemistry	671	483	436	268	14	146	8	45	2
Physics	480	350	291	142	13	134	2	58	1
Other physical sciences	9	7	4	1	1	2	0	3	0
Earth, atmospheric, and ocean sciences	252	165	119	73	8	27	11	45	1
Mathematics	435	305	234	101	71	53	9	70	1
Computer sciences	356	250	208	24	42	137	5	42	0
Biological sciences	1,239	858	727	621	29	65	12	127	4
Agricultural sciences	358	249	124	94	8	17	5	125	0
Psychology	152	100	69	33	16	13	7	31	0
Social sciences [2]	1,148	787	423	72	206	101	44	360	4
Non-S&E, total [2]	1,855	1,147	586	98	352	95	41	555	6
Grand total, all fields	9,780	6,610	4,786	1,878	874	1,847	187	1,797	27

1 Other includes government, self-employed, and other.

2 Categories are grouped differently from the questionnaire and the Summary Reports in that linguistics, history of science, American studies, and archaeology are included not in humanities but in social science.

NOTE: Persons with unknown citizenship are included in the total but are not shown separately.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates

Table 8. Percentage distribution of definite postgraduation plans of doctorate recipients, by citizenship status and major field: 2001

Field of study	Definite plans	In the United States					Abroad	Location unknown
		Total in U.S.	Postdoc study	Academic employment	Industry employment	Other[1]		
	All recipients							
Science and engineering, total[2]	100.0	90.1	37.1	18.2	25.3	9.5	9.5	0.4
Engineering, total	100.0	89.0	16.8	9.7	54.7	7.8	10.6	.4
Aeronautical/astronautical	100.0	91.2	18.4	8.8	41.9	22.1	8.1	.7
Chemical	100.0	88.5	21.8	4.0	60.3	2.5	11.3	.2
Civil	100.0	84.3	19.1	18.3	37.7	9.3	15.4	.3
Electrical	100.0	90.9	9.0	8.0	67.8	6.1	8.4	.6
Industrial	100.0	82.1	7.5	25.4	40.3	9.0	17.2	.7
Materials/metallurgical	100.0	90.0	21.1	3.1	60.6	5.1	9.7	.3
Mechanical	100.0	90.8	18.3	9.2	54.5	8.8	8.8	.5
Other engineering	100.0	86.9	24.9	14.6	35.4	12.0	13.1	0
Sciences, total[2]	100.0	90.4	42.6	20.5	17.4	9.9	9.2	.4
Physical sciences, total	100.0	91.9	47.3	7.3	32.9	4.3	7.6	.5
Astronomy	100.0	86.6	64.1	5.6	11.3	5.6	13.4	0
Chemistry	100.0	94.1	49.1	6.8	34.6	3.5	5.2	.7
Physics	100.0	89.1	41.4	8.3	33.9	5.4	10.5	.4
Other physical sciences	100.0	84.2	36.8	15.8	21.1	10.5	15.8	0
Earth, atmospheric, and ocean sciences	100.0	87.8	43.5	17.1	15.9	11.2	12.0	.2
Mathematics	100.0	87.5	31.3	32.9	16.1	7.2	12.1	.4
Computer sciences	100.0	91.4	10.0	28.3	47.3	5.8	8.4	.2
Biological sciences	100.0	93.6	71.8	7.8	9.3	4.8	6.0	.4
Agricultural sciences	100.0	74.9	31.4	19.3	15.0	9.2	24.9	.2
Psychology	100.0	97.3	38.6	21.5	15.3	21.9	2.4	.3
Social sciences[2]	100.0	82.9	11.5	45.8	11.8	13.9	16.6	.4
Non-S&E, total[2]	100.0	92.0	7.8	52.9	7.5	23.9	7.6	.4
Grand total, all fields	100.0	90.8	26.4	30.8	18.8	14.7	8.8	.4
	U.S. citizens							
Science and engineering, total[2]	100.0	96.5	39.5	22.8	21.0	13.1	3.2	0.3
Engineering, total	100.0	96.7	16.5	14.6	50.6	15.0	3.0	.3
Aeronautical/astronautical	100.0	98.7	12.0	12.0	36.0	38.7	1.3	0
Chemical	100.0	94.4	19.5	6.1	64.9	3.9	5.2	.4
Civil	100.0	96.0	18.7	32.0	30.7	14.7	4.0	0
Electrical	100.0	97.6	8.6	12.7	61.2	15.1	1.8	.6
Industrial	100.0	98.0	0	32.0	44.0	22.0	2.0	0
Materials/metallurgical	100.0	96.2	20.5	4.5	62.2	9.0	3.2	.6
Mechanical	100.0	98.6	19.2	12.5	50.2	16.7	1.0	.3
Other engineering	100.0	95.3	22.2	20.2	34.6	18.3	4.7	0
Sciences, total[2]	100.0	96.4	43.4	24.2	16.0	12.8	3.2	.3
Physical sciences, total	100.0	95.0	46.0	10.2	32.4	6.3	4.5	.6
Astronomy	100.0	90.7	69.1	6.2	9.3	6.2	9.3	0
Chemistry	100.0	95.7	45.6	9.3	36.3	4.5	3.3	.9
Physics	100.0	94.2	41.7	12.7	30.1	9.7	5.8	0
Other physical sciences	100.0	100.0	45.5	18.2	18.2	18.2	0	0
Earth, atmospheric, and ocean sciences	100.0	95.0	43.5	24.0	13.2	14.2	5.0	0
Mathematics	100.0	95.7	29.4	41.7	13.7	10.9	3.7	.6
Computer sciences	100.0	98.4	10.5	41.1	37.2	9.7	1.6	0
Biological sciences	100.0	96.3	71.8	9.1	9.5	6.0	3.4	.3
Agricultural sciences	100.0	95.8	26.0	33.2	21.5	15.2	4.2	0
Psychology	100.0	98.7	38.8	21.6	15.5	22.8	1.0	.3
Social sciences[2]	100.0	95.4	12.6	54.6	10.9	17.4	4.3	.3
Non-S&E, total[2]	100.0	97.8	7.6	55.8	7.2	27.2	1.9	.3
Grand total, all fields	100.0	97.1	25.6	37.2	15.0	19.3	2.6	.3

See explanatory information, if any, and SOURCE at end of table.

Table 8. Percentage distribution of definite postgraduation plans of doctorate recipients, by citizenship status and major field: 2001

Field of study	Definite plans	In the United States					Abroad	Location unknown
		Total in U.S.	Postdoc study	Academic employment	Industry employment	Other[1]		
	Non-U.S. citizens with permanent visas							
Science and engineering, total[2]	100.0	95.1	36.7	15.4	36.7	6.3	4.7	0.2
Engineering, total	100.0	94.9	11.2	7.1	72.1	4.6	5.1	0
Aeronautical/astronautical	100.0	100.0	0	0	100.0	0	0	0
Chemical	100.0	95.0	25.0	10.0	60.0	0	5.0	0
Civil	100.0	88.0	8.0	8.0	64.0	8.0	12.0	0
Electrical	100.0	97.1	5.8	2.9	81.2	7.2	2.9	0
Industrial	100.0	100.0	0	40.0	60.0	0	0	0
Materials/metallurgical	100.0	100.0	22.2	0	77.8	0	0	0
Mechanical	100.0	92.9	0	3.6	89.3	0	7.1	0
Other engineering	100.0	91.3	30.4	13.0	39.1	8.7	8.7	0
Sciences, total[2]	100.0	95.1	44.6	18.0	25.7	6.8	4.6	.3
Physical sciences, total	100.0	95.9	48.4	2.5	41.8	3.3	4.1	0
Astronomy	100.0	100.0	50.0	0	50.0	0	0	0
Chemistry	100.0	98.7	48.0	2.7	44.0	4.0	1.3	0
Physics	100.0	90.9	47.7	2.3	38.6	2.3	9.1	0
Other physical sciences	100.0	100.0	100.0	0	0	0	0	0
Earth, atmospheric, and ocean sciences	100.0	100.0	36.0	12.0	48.0	4.0	0	0
Mathematics	100.0	97.4	34.2	28.9	28.9	5.3	2.6	0
Computer sciences	100.0	100.0	10.5	18.4	68.4	2.6	0	0
Biological sciences	100.0	95.6	70.7	8.9	13.3	2.7	4.0	.4
Agricultural sciences	100.0	92.9	35.7	14.3	28.6	14.3	7.1	0
Psychology	100.0	96.2	42.3	26.9	13.5	13.5	3.8	0
Social sciences[2]	100.0	90.0	10.0	45.0	18.3	16.7	9.2	.8
Non-S&E, total[2]	100.0	87.9	10.2	55.4	11.5	10.8	11.5	.6
Grand total, all fields	100.0	93.1	29.4	26.4	29.8	7.5	6.6	.3
	Non-U.S. citizens with temporary visas							
Science and engineering, total[2]	100.0	76.9	32.6	9.6	32.1	2.7	22.7	0.4
Engineering, total	100.0	82.1	17.6	6.0	56.3	2.2	17.5	.4
Aeronautical/astronautical	100.0	80.7	28.1	5.3	45.6	1.8	17.5	1.8
Chemical	100.0	81.9	23.8	1.3	55.5	1.3	18.1	0
Civil	100.0	73.5	21.2	7.6	40.0	4.7	25.9	.6
Electrical	100.0	87.0	9.6	6.1	69.9	1.5	12.4	.6
Industrial	100.0	69.4	12.5	19.4	36.1	1.4	30.6	0
Materials/metallurgical	100.0	83.5	21.6	2.3	57.4	2.3	16.5	0
Mechanical	100.0	83.1	19.3	6.6	55.1	2.0	16.3	.7
Other engineering	100.0	75.1	27.5	7.3	36.3	4.1	24.9	0
Sciences, total[2]	100.0	74.2	40.4	11.4	19.5	2.9	25.5	.4
Physical sciences, total	100.0	86.5	49.2	3.4	32.6	1.4	13.1	.3
Astronomy	100.0	76.7	53.5	4.7	14.0	4.7	23.3	0
Chemistry	100.0	90.3	55.5	2.9	30.2	1.7	9.3	.4
Physics	100.0	83.1	40.6	3.7	38.3	.6	16.6	.3
Other physical sciences	100.0	57.1	14.3	14.3	28.6	0	42.9	0
Earth, atmospheric, and ocean sciences	100.0	72.1	44.2	4.8	16.4	6.7	27.3	.6
Mathematics	100.0	76.7	33.1	23.3	17.4	3.0	23.0	.3
Computer sciences	100.0	83.2	9.6	16.8	54.8	2.0	16.8	0
Biological sciences	100.0	84.7	72.4	3.4	7.6	1.4	14.8	.5
Agricultural sciences	100.0	49.8	37.8	3.2	6.8	2.0	50.2	0
Psychology	100.0	69.0	33.0	16.0	13.0	7.0	31.0	0
Social sciences[2]	100.0	53.7	9.1	26.2	12.8	5.6	45.7	.5
Non-S&E, total[2]	100.0	51.1	8.5	30.7	8.3	3.6	48.4	.5
Grand total, all fields	100.0	72.4	28.4	13.2	27.9	2.8	27.2	.4

[1] Other includes government, self-employed, and other.

[2] Categories are grouped differently from the questionnaire and the Summary Reports in that linguistics, history of science, American studies, and archaeology are included not in humanities but in social science.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates

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Table 9. Postgraduation plans of doctorate recipients (U.S. citizens and non-U.S. citizens with permanent visas), by sex and major field: 2001

Field of study	Total	Definite plans							
		Total with definite plans	In the United States				Abroad	Location unknown
			Total in U.S.	Postdoc study	Academic employment	Industry employment	Other [1]		
	All recipients								
Science and engineering, total [2]	16,262	11,601	11,179	4,560	2,586	2,565	1,468	383	39
Engineering, total	2,435	1,741	1,680	277	239	924	240	56	5
Aeronautical/astronautical	102	79	78	9	9	31	29	1	0
Chemical	355	251	237	50	16	162	9	13	1
Civil	269	175	166	30	50	62	24	9	0
Electrical	561	407	397	33	45	263	56	8	2
Industrial	88	60	59	0	20	28	11	1	0
Materials/metallurgical	225	174	168	36	7	111	14	5	1
Mechanical	427	315	309	55	37	169	48	5	1
Other engineering	408	280	266	64	55	98	49	14	0
Sciences, total [2]	13,827	9,860	9,499	4,283	2,347	1,641	1,228	327	34
Physical sciences, total	2,043	1,532	1,456	708	147	508	93	68	8
Astronomy	123	99	90	68	6	10	6	9	0
Chemistry	1,229	945	907	433	83	349	42	30	8
Physics	676	476	447	201	56	147	43	29	0
Other physical sciences	15	12	12	6	2	2	2	0	0
Earth, atmospheric, and ocean sciences	464	342	326	147	79	54	46	16	0
Mathematics	522	388	372	116	157	59	40	14	2
Computer sciences	420	296	292	31	113	122	26	4	0
Biological sciences	4,216	2,994	2,881	2,146	271	292	172	103	10
Agricultural sciences	429	303	290	80	98	66	46	13	0
Psychology	3,013	2,110	2,081	820	459	325	477	22	7
Social sciences [2]	2,720	1,895	1,801	235	1,023	215	328	87	7
Non-S&E, total [2]	12,467	8,651	8,432	665	4,829	637	2,301	191	28
Grand total, all fields	28,729	20,252	19,611	5,225	7,415	3,202	3,769	574	67
	Women								
Science and engineering, total [2]	6,867	4,684	4,536	1,995	1,171	726	644	132	16
Engineering, total	474	321	307	59	61	145	42	12	2
Aeronautical/astronautical	19	14	13	0	1	7	5	1	0
Chemical	92	62	59	14	5	38	2	3	0
Civil	66	41	39	8	16	10	5	2	0
Electrical	67	43	42	4	8	26	4	0	1
Industrial	27	17	17	0	6	6	5	0	0
Materials/metallurgical	54	42	41	9	2	24	6	1	0
Mechanical	38	31	29	6	7	14	2	1	1
Other engineering	111	71	67	18	16	20	13	4	0
Sciences, total [2]	6,393	4,363	4,229	1,936	1,110	581	602	120	14
Physical sciences, total	526	379	359	162	57	120	20	16	4
Astronomy	29	22	19	13	3	2	1	3	0
Chemistry	408	293	278	123	39	105	11	11	4
Physics	86	61	59	25	14	12	8	2	0
Other physical sciences	3	3	3	1	1	1	0	0	0
Earth, atmospheric, and ocean sciences	162	121	116	50	31	16	19	5	0
Mathematics	153	106	104	26	54	13	11	2	0
Computer sciences	98	64	63	7	30	20	6	1	0
Biological sciences	1,958	1,322	1,269	934	143	121	71	50	3
Agricultural sciences	164	107	105	32	28	26	19	2	0
Psychology	2,035	1,400	1,386	590	296	185	315	10	4
Social sciences [2]	1,297	864	827	135	471	80	141	34	3
Non-S&E, total [2]	7,274	5,031	4,935	417	2,796	347	1,375	79	17
Grand total, all fields	14,141	9,715	9,471	2,412	3,967	1,073	2,019	211	33

See explanatory information, if any, and SOURCE at end of table.

Table 9. Postgraduation plans of doctorate recipients (U.S. citizens and non-U.S. citizens with permanent visas), by sex and major field: 2001

Field of study	Total	Definite plans							
		Total with definite plans	In the United States				Abroad	Location unknown
			Total in U.S.	Postdoc study	Academic employment	Industry employment	Other [1]		
	Men								
Science and engineering, total [2]	9,395	6,917	6,643	2,565	1,415	1,839	824	251	23
Engineering, total	1,961	1,420	1,373	218	178	779	198	44	3
Aeronautical/astronautical	83	65	65	9	8	24	24	0	0
Chemical	263	189	178	36	11	124	7	10	1
Civil	203	134	127	22	34	52	19	7	0
Electrical	494	364	355	29	37	237	52	8	1
Industrial	61	43	42	0	14	22	6	1	0
Materials/metallurgical	171	132	127	27	5	87	8	4	1
Mechanical	389	284	280	49	30	155	46	4	0
Other engineering	297	209	199	46	39	78	36	10	0
Sciences, total [2]	7,434	5,497	5,270	2,347	1,237	1,060	626	207	20
Physical sciences, total	1,517	1,153	1,097	546	90	388	73	52	4
Astronomy	94	77	71	55	3	8	5	6	0
Chemistry	821	652	629	310	44	244	31	19	4
Physics	590	415	388	176	42	135	35	27	0
Other physical sciences	12	9	9	5	1	1	2	0	0
Earth, atmospheric, and ocean sciences	302	221	210	97	48	38	27	11	0
Mathematics	369	282	268	90	103	46	29	12	2
Computer sciences	322	232	229	24	83	102	20	3	0
Biological sciences	2,258	1,672	1,612	1,212	128	171	101	53	7
Agricultural sciences	265	196	185	48	70	40	27	11	0
Psychology	978	710	695	230	163	140	162	12	3
Social sciences [2]	1,423	1,031	974	100	552	135	187	53	4
Non-S&E, total [2]	5,193	3,620	3,497	248	2,033	290	926	112	11
Grand total, all fields	14,588	10,537	10,140	2,813	3,448	2,129	1,750	363	34

[1] Other includes government, self-employed, and other.

[2] Categories are grouped differently from the questionnaire and the Summary Reports in that linguistics, history of science, American studies, and archaeology are included not in humanities but in social science.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates

Table 10. Percentage distribution of definite postgraduation plans of doctorate recipients (U.S. citizens and non-U.S. citizens with permanent visas), by sex and major field: 2001

Field of study	Definite plans	In the United States					Abroad	Location unknown
		Total in U.S.	Postdoc study	Academic employment	Industry employment	Other[1]		
	All recipients							
Science and engineering, total[2]	100.0	96.4	39.3	22.3	22.1	12.7	3.3	0.3
Engineering, total	100.0	96.5	15.9	13.7	53.1	13.8	3.2	.3
Aeronautical/astronautical	100.0	96.7	11.4	11.4	39.2	36.7	1.3	0
Chemical	100.0	94.4	19.9	6.4	64.5	3.6	5.2	.4
Civil	100.0	94.9	17.1	28.6	35.4	13.7	5.1	0
Electrical	100.0	97.5	8.1	11.1	64.6	13.8	2.0	.5
Industrial	100.0	98.3	0	33.3	46.7	18.3	1.7	0
Materials/metallurgical	100.0	96.6	20.7	4.0	63.8	8.0	2.9	.6
Mechanical	100.0	98.1	17.5	11.7	53.7	15.2	1.6	.3
Other engineering	100.0	95.0	22.9	19.6	35.0	17.5	5.0	0
Sciences, total[2]	100.0	96.3	43.4	23.8	16.6	12.5	3.3	.3
Physical sciences, total	100.0	95.0	46.2	9.6	33.2	6.1	4.4	.5
Astronomy	100.0	90.9	68.7	6.1	10.1	6.1	9.1	0
Chemistry	100.0	96.0	45.8	8.8	36.9	4.4	3.2	.8
Physics	100.0	93.9	42.2	11.8	30.9	9.0	6.1	0
Other physical sciences	100.0	100.0	50.0	16.7	16.7	16.7	0	0
Earth, atmospheric, and ocean sciences	100.0	95.3	43.0	23.1	15.8	13.5	4.7	0
Mathematics	100.0	95.9	29.9	40.5	15.2	10.3	3.6	.5
Computer sciences	100.0	98.6	10.5	38.2	41.2	8.8	1.4	0
Biological sciences	100.0	96.2	71.7	9.1	9.8	5.7	3.4	.3
Agricultural sciences	100.0	95.7	26.4	32.3	21.8	15.2	4.3	0
Psychology	100.0	98.6	38.9	21.8	15.4	22.6	1.0	.3
Social sciences[2]	100.0	95.0	12.4	54.0	11.3	17.3	4.6	.4
Non-S&E, total[2]	100.0	97.5	7.7	55.8	7.4	26.6	2.2	.3
Grand total, all fields	100.0	96.8	25.8	36.6	15.8	18.6	2.8	.3
	Women							
Science and engineering, total[2]	100.0	96.8	42.6	25.0	15.5	13.7	2.8	0.3
Engineering, total	100.0	95.6	18.4	19.0	45.2	13.1	3.7	.6
Aeronautical/astronautical	100.0	92.9	0	7.1	50.0	35.7	7.1	0
Chemical	100.0	95.2	22.6	8.1	61.3	3.2	4.8	0
Civil	100.0	95.1	19.5	39.0	24.4	12.2	4.9	0
Electrical	100.0	97.7	9.3	18.6	60.5	9.3	0	2.3
Industrial	100.0	100.0	0	35.3	35.3	29.4	0	0
Materials/metallurgical	100.0	97.6	21.4	4.8	57.1	14.3	2.4	0
Mechanical	100.0	93.5	19.4	22.6	45.2	6.5	3.2	3.2
Other engineering	100.0	94.4	25.4	22.5	28.2	18.3	5.6	0
Sciences, total[2]	100.0	96.9	44.4	25.4	13.3	13.8	2.8	.3
Physical sciences, total	100.0	94.7	42.7	15.0	31.7	5.3	4.2	1.1
Astronomy	100.0	86.4	59.1	13.6	9.1	4.5	13.6	9
Chemistry	100.0	94.9	42.0	13.3	35.8	3.8	3.8	1.4
Physics	100.0	96.7	41.0	23.0	19.7	13.1	3.3	0
Other physical sciences	100.0	100.0	33.3	33.3	33.3	0	0	0
Earth, atmospheric, and ocean sciences	100.0	95.9	41.3	25.6	13.2	15.7	4.1	0
Mathematics	100.0	98.1	24.5	50.9	12.3	10.4	1.9	0
Computer sciences	100.0	98.4	10.9	46.9	31.3	9.4	1.6	0
Biological sciences	100.0	96.0	70.7	10.8	9.2	5.4	3.8	2
Agricultural sciences	100.0	98.1	29.9	26.2	24.3	17.8	1.9	0
Psychology	100.0	99.0	42.1	21.1	13.2	22.5	.7	.3
Social sciences[2]	100.0	95.7	15.6	54.5	9.3	16.3	3.9	.3
Non-S&E, total[2]	100.0	98.1	8.3	55.6	6.9	27.3	1.6	.3
Grand total, all fields	100.0	97.5	24.8	40.8	11.0	20.8	2.2	.3

See explanatory information, if any, and SOURCE at end of table.

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Table 10. Percentage distribution of definite postgraduation plans of doctorate recipients (U.S. citizens and non-U.S. citizens with permanent visas), by sex and major field: 2001

Field of study	Definite plans	In the United States					Abroad	Location unknown
		Total in U.S.	Postdoc study	Academic employment	Industry employment	Other[1]		
	Men							
Science and engineering, total[2]	100.0	96.0	37.1	20.5	26.6	11.9	3.6	0.3
Engineering, total	100.0	96.7	15.4	12.5	54.9	13.9	3.1	.2
Aeronautical/astronautical	100.0	100.0	13.8	12.3	36.9	36.9	0	0
Chemical	100.0	94.2	19.0	5.8	65.6	3.7	5.3	.5
Civil	100.0	94.8	16.4	25.4	38.8	14.2	5.2	0
Electrical	100.0	97.5	8.0	10.2	65.1	14.3	2.2	.3
Industrial	100.0	97.7	0	32.6	51.2	14.0	2.3	0
Materials/metallurgical	100.0	96.2	20.5	3.8	65.9	6.1	3.0	.8
Mechanical	100.0	96.6	17.3	10.6	54.6	16.2	1.4	0
Other engineering	100.0	95.2	22.0	18.7	37.3	17.2	4.8	0
Sciences, total[2]	100.0	95.9	42.7	22.5	19.3	11.4	3.8	.4
Physical sciences, total	100.0	95.1	47.4	7.8	33.7	6.3	4.5	.3
Astronomy	100.0	92.2	71.4	3.9	10.4	6.5	7.8	0
Chemistry	100.0	96.5	47.5	6.7	37.4	4.8	2.9	.6
Physics	100.0	93.5	42.4	10.1	32.5	8.4	6.5	0
Other physical sciences	100.0	100.0	55.6	11.1	11.1	22.2	0	0
Earth, atmospheric, and ocean sciences	100.0	95.0	43.9	21.7	17.2	12.2	5.0	0
Mathematics	100.0	95.0	31.9	36.5	16.3	10.3	4.3	.7
Computer sciences	100.0	96.7	10.3	35.8	44.0	8.6	1.3	0
Biological sciences	100.0	96.4	72.5	7.7	10.2	6.0	3.2	.4
Agricultural sciences	100.0	94.4	24.5	35.7	20.4	13.8	5.6	0
Psychology	100.0	97.9	32.4	23.0	19.7	22.8	1.7	.4
Social sciences[2]	100.0	94.5	9.7	53.5	13.1	18.1	5.1	.4
Non-S&E, total[2]	100.0	96.6	6.9	56.2	8.0	25.6	3.1	.3
Grand total, all fields	100.0	96.2	26.7	32.7	20.2	16.6	3.4	.3

[1] Other includes government, self-employed, and other.

[2] Categories are grouped differently from the questionnaire and the Summary Reports in that linguistics, history of science, American studies, and archaeology are included not in humanities but in social science.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates

Technical Notes

Survey Overview

The Survey of Earned Doctorates (SED) is designed to obtain data on the number and characteristics of individuals receiving research doctoral degrees from U.S. institutions. The results of the survey are used to assess trends in doctorate production. This information is vital for educational and labor force planners within the Federal Government and in academia. The survey has been completed by individuals receiving research doctorates since 1958. The graduate schools are responsible for submitting completed forms and sending them to be compiled in the Doctorate Records File (DRF).

Key variables of the survey include:

- Academic institution attended
- Citizenship status at graduation
- Country of birth
- Country of citizenship
- Date of birth
- Disability status
- Educational attainment of parents
- Educational history after high school
- Field of degree specialty (N= 287)
- Field of employment
- Field of science and engineering
- Level of degree
- Marital status
- Number of dependents
- Place of birth
- Postgraduate plans
- Primary type of financial support
- Race and Hispanic ethnicity (by subgroup)
- Sex
- Type of academic institution that conferred degrees
- Type of employment planned
- Type of financial support (e.g., Fellowship, research assistantship, etc.)
- Type of institutional control (public versus private)
- Work activity planned after doctoral degree

A complete questionnaire is contained in the next section.

Data Collection

The population eligible for the 2001 survey consisted of all individuals who received research doctorates (only first doctorates are included) from U.S. academic institutions in the 12-month period ending on June 30, 2001. The total universe consisted of 40,744 persons in over 400 institutions that conferred research doctorates awards in 2001.

Survey instruments were mailed to institutional coordinators in the graduate schools who distributed the survey forms to individuals receiving a research doctorate. The institutional coordinators also collected the forms and returned them to the contractor for editing/processing. Followup of missing critical items and forms is also conducted.

Since the survey collects a complete college education history, coding of institutions is very important. Because one-third of doctorate recipients from U.S. universities are from foreign countries, a coding manual for foreign institutions of higher education was developed by the U.S. Department of Education, entitled "Mapping the World of Education: The Comparative Database System" (3 Volumes).

The survey was conducted by the National Research Council of the National Academy of Sciences under contract to the National Science Foundation until 1997; the National Opinion Research Center (Chicago, IL.) currently conducts the survey under contract.

Nonresponse

Of the 40,744 new research doctorates granted in 2001, 92.2 percent of degree recipients returned their completed survey instruments. Limited records (containing field of study, doctorate institution, and sex) for nonrespondents are constructed based on information collected from administrative lists of the university—commencement programs, graduation lists, and other similar public records. Nonresponse was concentrated in certain institutions; graduates from 10 institutions accounted for 28 percent of the total nonrespondents.

Item nonresponse rates in 2001 for the most frequently used variables ranged from 0.2 percent for sex to 6.2 percent for race/ethnicity. No imputation was performed for missing data items.

Key variable	Item response rate
Sex	99.8%
Citizenship	94.1
Country of non-U.S. citizens	98.8
Race/ethnicity	93.8
Postgraduation location (U.S. or foreign)	92.1

A complete quality profile for the 2001 SED is available upon request. A complete list of methodological research concerning the Survey of Earned Doctorates is also available upon request.

Availability of Data

The survey has collected information on doctoral recipients annually since 1957. More limited information is contained on the SED data file for research doctorate recipients from 1920 to 1956.

The data from this survey are published annually in Detailed Statistical Tables in the series Science and Engineering Doctorate Awards, available on the SRS Web site at (www.nsf.gov/sbe/srs/ssed/sedmeth.htm). These reports focus on science and engineering fields of study. (The list of how fields of study are grouped for this report is shown at the end of the Technical Notes.) Companion data from this survey for earlier years (1960-91) were published in Detailed Statistical Tables in the report Science and Engineering Doctorates: 1960-91 (NSF 93-301). This report is out of print, but tables from it are available on request.

Information from the survey is also included in the report series, *Science and Engineering Degrees*; in *Science and Engineering Indicators;* in *Women, Minorities, and Persons With Disabilities in Science and Engineering*; in *Foreign Participation in U.S. Academic Science and Engineering*; and in special occasional publications such as *Undergraduate Origins of Recent Science and Engineering Doctorate Recipients*.

Results are also included in a publication series on ALL fields of study—*Doctorate Recipients from United States Universities: Summary Report*; this interagency report is sponsored by the Federal agencies that support the Survey of Earned Doctorates (6 in 2001). The report is available on the web at: www.norc.uchicago.edu/issues/docdata.htm.

Selected summary data from this survey are available on the SRS Web site and in the webcaspar database by institution. Access to restricted data for researchers interested in analyzing microdata can be arranged through a licensing agreement. Additional information about this survey can be obtained by contacting:

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Director, Doctorate Data Project
Human Resources Statistics Program
Division of Science Resources Statistics
National Science Foundation
4201 Wilson Boulevard, Rm 965
Arlington, VA 22230
Phone: (703) 292-7790
E-mail: sthill@nsf.gov

Fields of Study

The groupings of science and engineering fields of study are shown on the next page.

FIELDS OF STUDY

ENGINEERING

Aeronautical/Astronautical Engineering
300 Aerospace, Aeronautical, and Astronautical Engineering

Chemical Engineering
312 Chemical Engineering
366 Petroleum Engineering
369 Polymer and Plastics Engineering

Civil Engineering
315 Civil Engineering
336 Environmental Health Engineering

Electrical Engineering
318 Communications Engineering
321 Computer Engineering
324 Electrical and Electronics Engineering

Industrial Engineering
339 Industrial and Manufacturing Engineering

Mechanical Engineering
327 Engineering Mechanics
345 Mechanical Engineering

Materials/Metallurgical Engineering
309 Ceramic Sciences
342 Materials Science
348 Metallurgical Engineering

Other Engineering
303 Agricultural Engineering
306 Bioengineering and Biomedical Engineering
330 Engineering Physics
333 Engineering Science
351 Mining and Mineral Engineering
357 Nuclear Engineering
360 Ocean Engineering
363 Operations Research
372 Systems Engineering
398 Engineering, General
399 Engineering, Other

PHYSICAL SCIENCES

Astronomy

500 Astronomy
505 Astrophysics

Chemistry

520 Analytical Chemistry
522 Inorganic Chemistry
524 Nuclear Chemistry
526 Organic Chemistry
528 Pharmaceutical Chemistry
530 Physical Chemistry
532 Polymer Chemistry
534 Theoretical Chemistry
538 Chemistry, General
539 Chemistry, Other

Physics

560 Acoustics
561 Chemical and Atomic/Molecular Physics
564 Elementary Particle Physics
566 Fluids
568 Nuclear Physics
569 Optics
570 Plasma and High-Temperature Physics
572 Polymer Physics
574 Solid State and Low-Temperature Physics
578 Physics, General
579 Physics, Other

Other Physical Sciences

599 Physical Sciences, Other

EARTH, ATMOSPHERIC, AND OCEAN SCIENCES

Atmospheric Sciences

510 Atmospheric Physics and Chemistry
512 Atmospheric Dynamics
514 Meteorology
518 Atmospheric Science/Meteorology, General
519 Atmospheric Science/Meteorology, Other

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Geosciences

540 Geology
542 Geochemistry
544 Geophysics and Seismology
546 Paleontology
548 Mineralogy and Petrology
550 Stratigraphy and Sedimentation
552 Geomorphology and Glacial Geology
558 Geological and Related Sciences, General
559 Geological and Related Sciences, Other
585 Hydrology and Water Resources

Oceanography

590 Oceanography
595 Marine Sciences

Other Environmental Sciences

580 Environmental Science

MATHEMATICAL/COMPUTER SCIENCES

Mathematics

420 Applied Mathematics
425 Algebra
430 Analysis and Functional Analysis
435 Geometry
440 Logic
445 Number Theory
450 Mathematical Statistics
455 Topology
460 Computing Theory and Practice
465 Operations Research
498 Mathematics, General
499 Mathematics, Other

Computer Science

400 Computer Science
410 Information Science and Systems

BIOLOGICAL/AGRICULTURAL SCIENCES

Agricultural Sciences

005 Animal Breeding and Genetics
010 Animal Nutrition
012 Dairy Science
014 Poultry Science
019 Animal Sciences, Other
020 Agronomy and Crop Science
025 Plant Breeding and Genetics
030 Plant Pathology
039 Plant Sciences, Other
043 Food Engineering
044 Food Sciences, Other
046 Soil Chemistry and Microbiology
049 Soil Sciences, Other
050 Horticulture Science
055 Fisheries Science and Management
066 Forest Biology
068 Forest Engineering
070 Forest Management
072 Wood Science and Pulp/Paper Technology
074 Conservation and Renewable Natural Resources
079 Forestry and Related Sciences
080 Wildlife and Range Management
098 Agricultural Science, General
099 Agricultural Science, Other

Biological Sciences

100 Biochemistry
103 Biomedical Sciences
105 Biophysics
107 Biotechnology Research
110 Bacteriology
115 Plant Genetics
120 Plant Pathology
125 Plant Physiology
129 Botany, Other
130 Anatomy
133 Biometrics and Biostatistics
136 Cell Biology
139 Ecology
142 Embryology
145 Endocrinology
148 Entomology
151 Biological Immunology
154 Molecular Biology
157 Microbiology
160 Neuroscience
163 Nutritional Sciences
166 Parasitology

Biological Sciences, continued

169 Toxicology
170 Genetics, Human and Animal
175 Pathology, Human and Animal
180 Pharmacology, Human and Animal
185 Physiology, Human and Animal
189 Zoology, Other
198 Biological Sciences, General
199 Biological Sciences, Other

Psychology

600 Clinical Psychology
603 Cognitive Psychology and Psycholinguistics
606 Comparative Psychology
609 Counseling Psychology
612 Developmental and Child Psychology
613 Human Indiv. & Family Development
615 Experimental Psychology
618 Educational Psychology
620 Family and Marriage Counseling
621 Industrial and Organizational Psychology
624 Personality Psychology
627 Physiological Psychology/Psychobiology
630 Psychometrics
633 Quantitative Psychology
636 School Psychology
639 Social Psychology
648 Psychology, General
649 Psychology, Other

SOCIAL SCIENCES

Economics

000 Agricultural Economics
666 Economics
668 Econometrics

Political Science

674 International Relations/Affairs
678 Political Science and Government
682 Public Policy Analysis
976 Public Administration

Sociology

662 Demography and Population Studies
686 Sociology

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Other Social Sciences

650 Anthropology
652 Area Studies
658 Criminology
670 Geography
690 Statistics
694 Urban Affairs/Studies
698 Social Sciences, General
699 Social Sciences, Other
710 History and Philosophy of Science and Technology
729 Linguistics
770 American Studies
773 Archeology

NON-S&E

Health and Medical Sciences

200 Speech/Language Pathology and Audiology
210 Environmental Health
212 Health Systems/Services Administration
215 Public Health
220 Epidemiology
222 Exercise Physiology/Science Kinesiology
230 Nursing
240 Pharmacy
245 Rehabilitation/Therapeutic Services
250 Veterinary Science
298 Health Sciences, General
299 Health Sciences, Other

HUMANITIES

History

700 History, American
703 History, Asian
705 History, European
718 History, General
719 History, Other

English and Literature

720 Classics
723 Comparative Literature
732 Literature, American
733 Literature, English
734 English Language
736 Speech and Rhetorical Studies
738 Letters, General
739 Letters, Other

Foreign Languages

740 French
743 German
746 Italian
749 Spanish
752 Russian
755 Slavic (Other than Russian)
758 Chinese
762 Japanese
765 Hebrew
768 Arabic
769 Other Languages and Literature

Other Humanities

776 Art History/Criticism/Conservation
780 Music
785 Philosophy (see also 440)
790 Religion
795 Drama/Theater Arts
798 Humanities, General
799 Humanities, Other

Education

800 Curriculum and Instruction
805 Education Administration and Supervision
807 Educational Leadership
810 Educational/Instructional Media Design
815 Educational Statistics/Research Methods
820 Educational Assessment/Test Measurement
822 Educational Psychology
825 School Psychology
830 Social/Philosophical Foundations of Education
835 Special Education
840 Counseling Education/Counseling and Guidance Services
845 Education Evaluation and Research

Teacher Education

850 Pre-Elementary/Early Childhood Teacher Education
852 Elementary Teacher Education
856 Secondary Teacher Education
858 Adult and Continuing Teacher Education

Teaching Fields

860 Agricultural Education
861 Art Education
862 Business Education
864 English Education
866 Foreign Languages Education
868 Health Education
870 Home Economics Education
872 Technical and Industrial Arts Education

Teaching Fields, continued

874 Mathematics Education
876 Music Education
880 Physical Education and Coaching
882 Reading Education
884 Science Education
885 Social Science Education
887 Technical Education
888 Trade and Industrial Education
889 Teacher Education, Specific Academic and Vocational Programs, Other

Other Education

898 Education, General
899 Education, Other

PROFESSIONAL/OTHER

Business Management and Administrative Services

900 Accounting
905 Banking/Financial Support Services
910 Business Administration and Management
915 Business/Managerial Economics
917 Management Information Systems/Business

Data Processing

920 Marketing Management and Research
930 Operations Research (see also 363, 465)
935 Organizational Behavior (see also 621)
938 Business Management/Administrative Services, General
939 Business Management/Administrative Services, Other

Information Fields

940 Communications Research
947 Mass Communications
957 Communication Theory
958 Communications, General
959 Communications, Other

Other Professional Fields

960 Architecture Environmental Design
964 Home Economics
968 Law
972 Library Science
974 Parks/Recreation/Leisure/Fitness
980 Social Service Professions
984 Theology and Religious Education
988 Professional Fields, General
989 Professional Fields, Other

2001
Survey of Earned Doctorates
Survey Form

Please print your name in full:

First Name | Middle Name | Last Name | Suffix (e.g., Jr.)

Cross reference: Birth name or former name legally changed

Name of Doctoral Institution | City or Branch | Date Degree Granted (mm/yyyy)

Survey of Earned Doctorates

July 1, 2000, to June 30, 2001

Conducted by
The National Opinion Research Center at the University of Chicago
for
The National Science Foundation
The National Institutes of Health
The U.S. Department of Education
The National Endowment for the Humanities
The U.S. Department of Agriculture
The National Aeronautics and Space Administration

This information is solicited under the authority of the National Science Foundation Act of 1950, as amended. ALL INFORMATION YOU PROVIDE WILL BE TREATED AS CONFIDENTIAL and used only for research or statistical purposes by your doctoral institution, the survey sponsors, their contractors, and collaborating researchers for the purpose of analyzing data, preparing scientific reports and articles, and selecting samples for a limited number of carefully defined follow-up studies. Any information publicly released (such as statistical summaries) will be in a form that does not personally identify you. Your response is voluntary and failure to provide some or all of the requested information will not in any way adversely affect you. Your Social Security number is also solicited under the NSF Act of 1950, as amended; providing it is also voluntary. It is used for survey quality control, program evaluation, and for matching with other databases.

The time needed to complete this form varies according to individual circumstances, but the average time is estimated to be 20 minutes. If you have comments regarding this time estimate, you may write to the National Science Foundation, 4201 Wilson Blvd., Arlington, VA 22230, Attention: NSF Reports Clearance Officer.

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INSTRUCTIONS

Thank you for taking the time to complete this questionnaire. Directions are provided for each question. Because not all questions will apply to everyone, you may be asked to skip certain questions.

- If you have not already done so, please print your name on the front cover.
- Please print all responses; you may use either a pen or pencil.
- When answering questions that require marking a box, please use an "X."
- If you need to change an answer, please make sure that your old answer is either completely erased or clearly crossed out.
- On page 7 (inside the back cover) is a Specialties List for classifying your field(s) of specialization in questions A2 and A8.

A1. What is the title of your dissertation?

Please mark (X) this box if the title below refers to a performance, project report, or a musical or literary composition required instead of a dissertation.

Title

A2. Using the Specialties List (page 7), please write the name and number of the primary field of your dissertation research.

Name of Field

Number of Field

If you had a secondary field for your dissertation research, list the name and number.

Name of Field

Number of Field

A3. Please name the department (or interdisciplinary committee, center, institute, etc.) of the university that supervised your doctoral program.

Mark (X) box if none

Department/Committee/Center/Institute/Program

A4. Please name the school or college within the university that supervised your doctoral program.

Mark (X) box if not applicable

School or College within University
School or College within University

A5. Which of the following were sources of support during graduate school?

Mark (X) Yes or No for each		Yes	No
a.	Fellowship, scholarship	1	2
b.	Dissertation grant	1	2
c.	Teaching assistantship	1	2
d.	Research assistantship	1	2
e.	Traineeship	1	2
f.	Internship or residency	1	2
g.	Loans (from any source)	1	2
h.	Foreign (non-U.S.) support	1	2
i.	Personal savings	1	2
j.	Personal earnings during graduate school (other than sources listed above)	1	2
k.	Spouse's, partner's, or family earnings or savings	1	2
l.	Employer reimbursement/assistance	1	2
m.	Other - Specify	1	2

A6. Which TWO sources listed in A5 provided the most support?
Enter letters of primary and secondary sources

1._____Primary source of support

Mark (X) if no primary source

2._____Secondary source of support

Mark (X) if no secondary source

A7. If you received full or partial tuition remission for your doctoral studies, was it:

0 I did not receive any tuition remission

1 for less than 1/3 of tuition

2 between 1/3 and 2/3 of tuition

3 more than 2/3 of tuition

A8. Please list below, chronologically, all colleges (including 2-year) and graduate institutions you have attended and each degree earned (if any). Be sure to give the years attended for ALL institutions attended. INCLUDE YOUR DOCTORAL INSTITUTION(S) AND DOCTORAL DEGREE AT THE END.

☐ Mark (X) box if bachelor's degree (or equivalent) was never received. ☐ Mark (X) box if master's degree (or equivalent) was never received.

EXAMPLE Institution and Location	Years Attended		Field of Study (*Use Specialties List, page 7*)		Degree (if any) Granted		
	From	To	Field Name	Number	Title	Mo.	Yr.
Institution: *Indian Institute of Technology* Branch or City: *Madras* State or Province: Country (if not U.S.): *India*	*1990*	*1992*	*Mathematics*	*498*	--	--	--
Institution: *University of California* Branch or City: *Berkeley* State or Province: *CA* Country (if not U.S.):	*1993*	*1995*	*Mechanical Engineering*	*345*	*B.S.*	*6*	*1995*
Institution: *University of California* Branch or City: *Berkeley* State or Province: *CA* Country (if not U.S.):	*1997*	*2000*	*Mechanical Engineering*	*345*	*M.S.*	*6*	*2000*

Institution and Location	Years Attended		Field of Study (*Use specialties List, page 7*)		Degree (if any) Granted		
	From	To	Field Name	Number	Title	Mo.	Yr.
Institution Branch or City State or Province Country (if not U.S.)							
Institution Branch or City State or Province Country (if not U.S.)							
Institution Branch or City State or Province Country (if not U.S.)							
Institution Branch or City State or Province Country (if not U.S.)							
Institution Branch or City State or Province Country (if not U.S.)							
Institution Branch or City State or Province Country (if not U.S.)							

If you have attended more than six institutions of higher education, please continue this list in the "Comments" section on the back cover. Remember to include your doctoral institution and degree.

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A9. When you receive your doctoral degree, how much money will you owe that is directly related to your undergraduate and graduate education?

Mark (X) one in each column

	Undergraduate	Graduate
0	None	None
1	$5,000 or less	$5,000 or less
2	$5,001 - $10,000	$5,001 - $10,000
3	$10,001 - $15,000	$10,001 - $15,000
4	$15,001 - $20,000	$15,001 - $20,000
5	$20,001 - $25,000	$20,001 - $25,000
6	$25,001 - $30,000	$25,001 - $30,000
7	$30,001 - $35,000	$30,001 - $35,000
8	$35,001 - or more	$35,001 - or more

A10. How many years were there between the date you first entered graduate school in any program or capacity and the date your doctorate was granted?

Years ☐☐ *Round to whole years*

A11. How many years were you taking courses or preparing for exams required for or related to your doctoral degree?

Years ☐☐ *Round to whole years*

A12. How many years did you spend on your dissertation (non-course related preparation or research, writing and defense)?

Years ☐☐ *Round to whole years*

PART B - Postgraduation Plans

B1. How definite are your immediate (within the next year) postgraduate plans?

Mark (X) one

- 0 ☐ Am returning to, or continuing in, predoctoral employment → GO TO B2
- 1 ☐ Have signed contract or made definite commitment for other work or study → GO TO B2
- 2 ☐ Am negotiating with one or more specific organizations → SKIP TO B3
- 3 ☐ Am seeking position but have no specific prospects → SKIP TO B3
- 4 ☐ Other - Specify → SKIP TO B3

B2. Please name the organization and geographic location where you will work or study.

Name → SKIP TO B4

City State (if U.S.) Country (if not U.S.)

B3. In what state or country do you intend to live after graduation (within the next year)?

0 ☐ in U.S. → State

1 ☐ not in U.S. → Country

B4. What best describes your immediate (within the next year) postgraduate plans?

Mark (X) one

Further Training or Study

- 0 ☐ Postdoctoral fellowship → GO TO B5
- 1 ☐ Postdoctoral research associateship → GO TO B5
- 2 ☐ Traineeship → GO TO B5
- 3 ☐ Other study - Specify → GO TO B5

Career Employment

- 4 ☐ Employment (other than 0, 1, 2, 3) → SKIP TO B6
- 5 ☐ Military service → SKIP TO B6
- 6 ☐ Other - Specify → SKIP TO B6

B5. What will be the main source of financial support for your postdoctoral study/research within the next year?

Mark (X) one

- 0 ☐ U.S. Government → SKIP TO C1
- 1 ☐ Industry/Business → SKIP TO C1
- 2 ☐ College or university → SKIP TO C1
- 3 ☐ Private foundation → SKIP TO C1
- 4 ☐ Nonprofit, other than private foundation → SKIP TO C1
- 5 ☐ Other - Specify → SKIP TO C1
- 6 ☐ Unknown → SKIP TO C1

B6. For what type of employer will you be working within the next year?

Mark (X) one

EDUCATION

a. ☐ U.S. 4-year college or university other than medical school

b. ☐ U.S. medical school (including university-affiliated hospital or medical center)

c. ☐ U.S. junior or community college or technical institute

d. ☐ Preschool, elementary, or secondary school in the U.S.

e. ☐ Foreign educational institution

GOVERNMENT

f. ☐ Foreign government

g. ☐ U.S. federal government

h. ☐ U.S. state government

i. ☐ U.S. local government

PRIVATE SECTOR

j. ☐ Nonprofit organization

k. ☐ Industry or business

l. ☐ Self-employed

OTHER

m. ☐ Other - Specify

B7. From the list below, please indicate what your primary and secondary work activities will be by entering the numbers of your selections in the appropriate boxes:

Enter numbers from below:

a. ☐ Primary Activity

b. ☐ Secondary Activity

0 Research and development

1 Teaching

2 Administration

3 Professional services to individuals

4 Other - Specify

PART C - Background Information

C1. Are you -

1 ☐ Male

2 ☐ Female

C2. What is your marital status?

Mark (X) one

1 ☐ Married

2 ☐ Living in a marriage-like relationship

3 ☐ Widowed

4 ☐ Separated/divorced

5 ☐ Never married

C3. Not including yourself (or your spouse/partner), how many dependents do you have - that is, how many others receive at least one half of their support from you?

☐ *Mark (X) box if none*

	Number
5 years of age or younger	☐
6 to 18 years	☐
19 years or older	☐

C4. What is the highest educational attainment of your mother and father?

Mark (X) one for each parent

	a. Mother	b. Father
Less than high school/secondary school	1 ☐	1 ☐
High-school/secondary-school graduate	2 ☐	2 ☐
Some college	3 ☐	3 ☐
Bachelor's degree	4 ☐	4 ☐
Master's degree	5 ☐	5 ☐
Professional degree	6 ☐	6 ☐
Doctoral degree	7 ☐	7 ☐

C5. What is your place of birth?

State (if U.S.)

OR

Country (if not U.S.)

C6. What is your date of birth?

Month ☐☐ Day ☐☐ Year 1 9 ☐☐

C7. What is your citizenship status?

Mark (X) one

U.S. Citizen:

0 ☐ Native Born

1 ☐ Naturalized

→ **SKIP TO C9**

Non-U.S. Citizen:

2 ☐ With a Permanent U.S. Resident Visa ("Green Card")

3 ☐ With a Temporary U.S. Visa

→ **GO TO C8**

C8. (IF A NON-U.S. CITIZEN) Of which country are you a citizen?

(Specify country of present citizenship)

C9. In what state or country was the high school/secondary school that you last attended?

State (if U.S.)

OR

Country (if not U.S.)

C10. Are you a person with a disability?

1 ☐ Yes → **GO TO C11**

2 ☐ No → **SKIP TO C12**

C11. (IF YES) Which of the following categories describes your disability(ies)?

Mark (X) one or more

a. ☐ Blind/Visually Impaired

b. ☐ Deaf/Hard of Hearing

c. ☐ Physical/Orthopedic Disability

d. ☐ Learning/Cognitive Disability

e. ☐ Vocal/Speech Disability

f. ☐ Other - Specify

C12. Are you Hispanic (or Latino)?

1 ☐ Yes → **GO to C13**

2 ☐ No → **SKIP to C14**

C13. (IF YES TO C12) Which of the following describes your Hispanic origin or descent?

1 ☐ Mexican American or Chicano

2 ☐ Puerto Rican

3 ☐ Cuban

4 ☐ Other Hispanic - Specify

C14. What is your racial background?

Mark (X) one or more

a. ☐ American Indian or Alaska Native

Specify tribal affiliation(s)

b. ☐ Native Hawaiian or other Pacific Islander

c. ☐ Asian

d. ☐ Black or African-American

e. ☐ White

C15. Please fill in your U.S. Social Security number.

☐☐☐-☐☐-☐☐☐☐

C16. In case we need to clarify some of the information you have provided, please list an E-mail address, website address (if applicable), and telephone numbers where you can be reached.

E-mail address

Website address

Daytime telephone

Evening telephone

C17. Please provide your address and the name and address of a person through which you could always be reached.

Current Address

Number Street

City State Country Zip or Postal Code

Contact Person

Name

Number Street

City State Country Zip or Postal Code

Phone Number (including area or country code)

E-mail Address

C18. Please sign and date.

Signature Date

☐ **Mark (X) box if you would like a summary of the results of this survey (available as funding permits).**

Results of the Survey of Earned Doctorates can be found on the National Science Foundation's World Wide Web page at http://www.nsf.gov/sbe/srs/srs00410

Please use the back cover to make any additional comments you may have about this survey.

Thank you for completing the questionnaire. Please return it to the GRADUATE DEAN for forwarding to Survey of Earned Doctorates, NORC at the University of Chicago, 1525 East 55th Street, Chicago, IL 60615. Should you need to call us, our toll free number is 1-800-248-8649.

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SPECIALTIES LIST

INSTRUCTIONS: The following field listing is to be used in responding to items A2 and A8. If you choose a field marked with an asterisk (*), please write in your field of specialization in the space provided in those items.

AGRICULTURAL SCIENCES
000 Agricultural Economics
002 Agricultural Business & Mgmt.
005 Animal Breeding & Genetics
010 Animal Nutrition
012 Dairy Science
014 Poultry Science
019 Animal Sciences, Other*
020 Agronomy & Crop Science
025 Plant Breeding & Genetics
030 Plant Pathology (See also 120)
039 Plant Sciences, Other*
043 Food Engineering
044 Food Sciences, Other*
046 Soil Chemistry/ Microbiology
049 Soil Sciences, Other*
050 Horticulture Science
055 Fisheries Sci. & Management
066 Forest Biology
068 Forest Engineering
070 Forest Management
072 Wood Sci. & Pulp/Paper Tech.
074 Conserv./ Renewable Natural Res.
079 Forestry & Related Sci., Other*
080 Wildlife/Range Management
098 Agricultural Sci., General
099 Agricultural Sci., Other*

BIOLOGICAL SCIENCES
100 Biochemistry
103 Biomedical Sciences
105 Biophysics
107 Biotechnology Research
110 Bacteriology
115 Plant Genetics
120 Plant Pathology (See also 030)
125 Plant Physiology
129 Botany, Other*
130 Anatomy
133 Biometrics & Biostatistics
136 Cell Biology (See also 154)
139 Ecology
142 Developmental Bio./Embryology
145 Endocrinology
148 Entomology
151 Biological Immunology
154 Molecular Biology
157 Microbiology
160 Neuroscience
163 Nutritional Sciences
166 Parasitology
169 Toxicology
170 Genetics, Human & Animal
175 Pathology, Human & Animal (See also 120)
180 Pharmacology, Human & Animal
185 Physiology, Human & Animal
189 Zoology, Other*
198 Biological Sciences, General
199 Biological Sciences, Other*

HEALTH SCIENCES
200 Speech-Lang. Path. & Audiology
210 Environmental Health
212 Health Systems/ Service Admin.
215 Public Health
220 Epidemiology (See also 133)
222 Exercise Physiology/ Sci., Kinesiology
230 Nursing
240 Pharmacy
245 Rehabilitation/ Therapeutic Services
250 Veterinary Medicine
298 Health Sciences, General
299 Health Sciences, Other*

ENGINEERING
300 Aerospace, Aeronaut. & Astronaut.
303 Agricultural
306 Bioengineering & Biomedical
309 Ceramic Sciences
312 Chemical
315 Civil
318 Communications
321 Computer
324 Electrical & Electronics
327 Engineering Mechanics
330 Engineering Physics
333 Engineering Science
336 Environmental Health Engineering
339 Industrial & Manufacturing
342 Materials Science
345 Mechanical
348 Metallurgical
351 Mining & Mineral
357 Nuclear
360 Ocean
363 Operations Research (See also 465, 930)
366 Petroleum
369 Polymer & Plastics
372 Systems
398 Engineering, General
399 Engineering, Other*

COMPUTER AND INFORMATION SCIENCES
400 Computer Science
410 Info. Sci. & Sys.
419 Computer/Info. Sci., Other*

MATHEMATICS
420 Applied Mathematics
425 Algebra
430 Analysis & Functional Analysis
435 Geometry
440 Logic (See also 785)
445 Number Theory
450 Mathematical Statistics
455 Topology
460 Computing Theory & Practice
465 Operations Research (See also 363, 930)
498 Mathematics, General
499 Mathematics, Other*

PHYSICAL SCIENCES
Astronomy
500 Astronomy
505 Astrophysics

Atmospheric Sci. and Meteorology
510 Atmospheric Physics & Chemistry
512 Atmospheric Dynamics
514 Meteorology
518 Atmos. Sci./Meteorol., General
519 Atmos. Sci./Meteorol., Other*

Chemistry
520 Analytical
522 Inorganic
524 Nuclear
526 Organic
528 Medicinal/ Pharmaceutical
530 Physical
532 Polymer
534 Theoretical
538 Chemistry, General
539 Chemistry, Other* (See 100 Biochemistry)

Geological & Related Sciences
540 Geology
542 Geochemistry
544 Geophysics & Seismology
546 Paleontology
548 Mineralogy & Petrology
550 Stratigraphy & Sedimentation
552 Geomorphology & Glacial Geology
558 Geolog. & Related Sci., General
559 Geolog. & Related Sci., Other*

Physics
560 Acoustics
561 Chemical & Atomic/Molecular
564 Elementary Particle
566 Fluids
568 Nuclear
569 Optics
570 Plasma & High-Temperature
572 Polymer
574 Solid State & Low-Temperature
578 Physics, General
579 Physics, Other*

Miscellaneous Physical Sciences
580 Environmental Science
585 Hydrology & Water Resources
590 Oceanography
595 Marine Sciences
599 Misc. Physical Sciences, Other*

PSYCHOLOGY
600 Clinical
603 Cognitive & Psycholinguistics
606 Comparative
609 Counseling
612 Developmental & Child
613 Human/Indiv. & Family Devlpmt.
615 Experimental
618 Educational (See also 822)
620 Family & Marriage Counseling
621 Indust. & Organiz. (See also 935)
624 Personality
627 Physiological/ Psychobiology
630 Psychometrics
633 Quantitative
638 School (See also 825)
639 Social
648 Psychology, General
649 Psychology, Other*

SOCIAL SCIENCES
650 Anthropology
652 Area Studies
658 Criminology
662 Demography/ Population Studies
666 Economics
668 Econometrics
670 Geography
674 International Relations/Affairs
678 Political Sci. & Government
682 Public Policy Analysis
686 Sociology
690 Statistics (See also 450)
694 Urban Affairs/Studies
698 Social Sciences, General
699 Social Sciences, Other*

HUMANITIES
History
700 History, American
703 History, Asian
705 History, European
710 History/Philosophy of Sci. & Tech.
718 History, General
719 History, Other*

Letters
720 Classics
723 Comparative Literature
729 Linguistics
732 Literature, American
733 Literature, English
734 English Language
736 Speech & Rhetorical Studies
738 Letters, General
739 Letters, Other*

Foreign Languages and Literature
740 French
743 German
746 Italian
749 Spanish
752 Russian
755 Slavic (other than Russian)
758 Chinese
762 Japanese
765 Hebrew
768 Arabic
769 Other Languages & Literature*

Other Humanities
770 American Studies
773 Archeology
778 Art History/ Criticism/Conserv.
780 Music
785 Philosophy (See also 440)
790 Religion (See also 984)
795 Drama/ Theater Arts
798 Humanities, General
799 Humanities, Other*

EDUCATION
800 Curriculum & Instruction
805 Educational Admin. & Supervision
807 Educational Leadership
810 Educ./Instruct. Media Design
815 Educ. Stat./ Research Methods
820 Educ. Assess./ Test./Meas.
822 Educ. Psychology (See also 618)
825 School Psychology (See also 636)
830 Social/Phil. Found. of Education
835 Special Education
840 Couns. Educ./Couns. & Guid. Serv.
845 Higher Education/Eval. & Research

Teacher Education
850 Pre-elementary/ Early Childhood
852 Elementary
856 Secondary
858 Adult & Continuing

Teaching Fields
860 Agricultural Education
861 Art Education
862 Business Education
864 English Education
866 Foreign Languages Education
868 Health Education
870 Home Economics Education
872 Tech. & Indust. Arts Education
874 Mathematics Education
876 Music Education
878 Nursing Education
880 Physical Education & Coaching
882 Reading Education
884 Science Education
885 Social Science Education
887 Technical Education
888 Trade & Industrial Education
889 Teacher Educ., Specific Acad. & Voc. Prog., Other*

Other Education
898 Education, General
899 Education, Other*

PROFESSIONAL FIELDS
Business Management and Administrative Services
900 Accounting
905 Banking/Financial Support Serv.
910 Business Admin. & Management
915 Business/Managerial Economics
916 International Business
917 Mgmt. Info. Sys./Bus. Data Proc.
920 Marketing Mgmt. & Research
930 Operations Research (See also 363, 465)
935 Organiz. Behavior (See also 621)
938 Bus. Mgmt./Admin. Serv., Gen.
939 Bus. Mgmt./Admin. Serv., Other*

Communications
940 Communications Research
947 Mass Communications
957 Communication Theory
958 Communications, General
959 Communications, Other* (See also 736)

Other Professional Fields
960 Architec. Environ. Design
964 Home Economics
968 Law
972 Library Science
974 Parks/ Rec./Leisure/Fitness
976 Public Administration
980 Social Work
984 Theol./Religious Education (See also 790)
988 Professional Fields, General
989 Professional Fields, Other*

OTHER FIELDS
999 Other*

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Congratulations on earning a doctoral degree! This is an important accomplishment for you. Your accomplishment is also significant for both this nation and others, as the new knowledge generated by research doctorates enhances the quality of life in this country and throughout the world. Because of the importance of persons earning research doctorates, several Federal agencies—listed on the cover—sponsor this Survey of Earned Doctorates.

The basic purpose of this survey is to gather objective data about doctoral graduates. These data are important in improving graduate education both at your home institution and beyond. Often, decisions made by governmental and private agencies to develop new programs, or to support present ones, are based in part on the data developed from this survey. If you have any comments about the survey, please provide them in the space below.

On behalf of the sponsoring Federal agencies, I thank you for your participation in this survey.

Best wishes,

Dr. Lynda Carlson
National Science Foundation

Comments About This Survey

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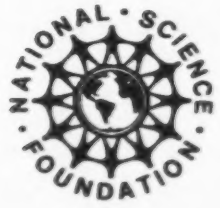

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